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STRUCTURE FILE UPDATES: 25 OCT 2004 HIGHEST RN 769101-30-6  
DICTIONARY FILE UPDATES: 25 OCT 2004 HIGHEST RN 769101-30-6

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Experimental and calculated property data are now available. For more  
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=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 09:28:13 ON 26 OCT 2004  
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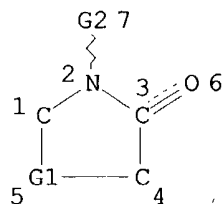
FILE COVERS 1907 - 26 Oct 2004 VOL 141 ISS 18  
FILE LAST UPDATED: 25 Oct 2004 (20041025/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> d que

L1  
L2

SCR 2043  
STR 1



Ak~C=CH2  
@12 8 9

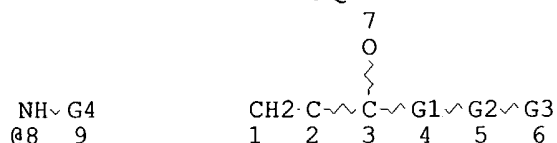
C=CH2  
@10 11

*Query for Monomers  
for 1a - the  
vinyl lactam*

REP G1=(0-4) C  
VAR G2=12/10  
NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE  
L3 STR 2



*query for monomer  
covering  
1b - structures 1a or  
1b*

G4 ~ N ~ G4  
10 @11 12

VAR G1=N/O  
REP G2=(1-20) A  
VAR G3=NH2/NH3/11/8  
VAR G4=AK/CB  
NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

*1223 polymers from structure  
one and two*

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L4 1223 SEA FILE=REGISTRY SSS FUL L3 AND L2 AND L1  
 L5 1750 SEA FILE=HCAPLUS ABB=ON L4  
 L6 477 SEA FILE=HCAPLUS ABB=ON L5(L) (HAIR OR KERAT?)  
 L7 245 SEA FILE=HCAPLUS ABB=ON L6 AND COMPOSITION?  
 L8 14 SEA FILE=HCAPLUS ABB=ON L7 AND FATTY(2A)ALC?  
 L10 18 SEA FILE=HCAPLUS ABB=ON L7 AND OXID?(3A)DYE?  
 L11 29 SEA FILE=HCAPLUS ABB=ON L8 OR L10

*29 CA references with ability*

=> d l11 bib abs ind hitstr 1-29

L11 ANSWER 1 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:652290 HCAPLUS  
 DN 141:179197  
 TI Method and **compositions** for providing natural appearing hair  
 color  
 IN Narasimhan, Saroja; Vena, Lou Ann Christine  
 PA USA  
 SO U.S. Pat. Appl. Publ., 16 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004154108	A1	20040812	US 2003-360699	20030206
PRAI	US 2003-360699		20030206		

AB A method for improving the dimensionality and fade resistance of oxidatively colored or lightened hair, a method for oxidatively coloring or lightening hair, a kit for use in practicing the method, and the related compns. are provided. A method for oxidatively coloring the hair comprising the steps of: (a) treating the hair with an **oxidative dye composition** comprising at least one dyestuff component and at least one oxidizing agent reactive with the dyestuff component to form color, for a period of time sufficient to color the hair, (b) removing the **oxidative dye composition** from the hair but leaving residual oxidizing agent or at least portion thereof, and (c) treating the hair with a post-treatment **composition** comprising at least one dyestuff component but being free of any oxidizing agent reactive with the dyestuff component to form color, whereby the dyestuff component in the post-treatment **composition** reacts with any residual oxidizing agent present on the hair to form color. The **dyestuff** component in the **oxidative dye composition** comprises at least one primary intermediate and, optionally, at least one coupler for the formation of **oxidation dyes**. The post-treatment **composition** comprises about 0.01 to 99.9% water and about 0.01 to 99.9% dyestuff component. For example, an **oxidative hair dye composition** for dark blonde hair contained erythrobinic acid 0.20%, sodium sulfite 0.50%, ethoxydiglycol 5.00%, tetrasodium EDTA 0.80%, ethanolamine 3.00%, botanical extract 0.80%, sodium benzotriazolyl butylphenolsulfonate (UV absorber) 0.50%, dark blonde dyestuff components 1.746%, ammonium lauryl sulfate (28% aqueous solution) 2.00%, oleic acid 12.50%, cetearyl alc. 4.00%, emulsifying wax 2.00%, Oleth-20 1.00%, Steareth-21 0.70%, meadowfoam seed oil 0.75%, oleyl alc. 0.40%, Polyquaternium 10 0.20%, Polyquaternium 28 0.50%, mica/titanium dioxide (67:33) 0.30%, hydrolyzed wheat protein 0.50%, fragrance 1.25%, ammonium hydroxide (27.5%) 9.00%, and water to 100%. The **composition** was stored in tubes of laminated plastic and metal.

ICM A61K007-13

NCL 008405000

CC 62-3 (Essential Oils and Cosmetics)

ST **oxidative dye** conditioner posttreatment hair coloring kit

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(C16-18, ethoxylated, Cetareth 20; kits containing compns. for providing natural appearing hair color)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(C16-18; kits containing compns. for providing natural appearing hair color)

IT Fats and Glyceridic oils, biological studies

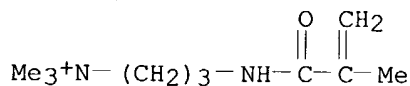
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Limnanthes alba seed; kits containing compns. for providing natural appearing hair color)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

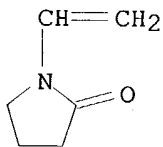
([ (aminoethyl) amino] propyl hydroxy, di-Me; kits containing compns. for providing natural appearing hair color)  
 IT Hair preparations  
 (conditioners; kits containing compns. for providing natural appearing hair color)  
 IT Shampoos  
 (conditioning; kits containing compns. for providing natural appearing hair color)  
 IT Cyclosiloxanes  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (di-Me; kits containing compns. for providing natural appearing hair color)  
 IT Hair preparations  
 (**dyes, oxidative**; kits containing compns. for providing natural appearing hair color)  
 IT Embryophyta  
 (exts.; kits containing compns. for providing natural appearing hair color)  
 IT Oxidizing agents  
 Surfactants  
 (kits containing compns. for providing natural appearing hair color)  
 IT Alcohols, biological studies  
 Glycols, biological studies  
 Hydrocarbon oils  
 Polyesters, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (kits containing compns. for providing natural appearing hair color)  
 IT Mica-group minerals, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (mixture with titanium dioxide; kits containing compns. for providing natural appearing hair color)  
 IT Alcohols, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (polyhydric; kits containing compns. for providing natural appearing hair color)  
 IT Hair preparations  
 (post-treatment; kits containing compns. for providing natural appearing hair color)  
 IT Mangifera indica  
 (seed butter; kits containing compns. for providing natural appearing hair color)  
 IT Protein hydrolyzates  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (wheat; kits containing compns. for providing natural appearing hair color)  
 IT 36574-66-0D, N-coco acyl derivs.  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Cocoamidopropylbetaine; kits containing compns. for providing natural appearing hair color)  
 IT 60-00-4, EDTA, biological studies 64-02-8, Tetrasodium EDTA 77-92-9, Citric acid, biological studies 79-10-7D, Acrylic acid, derivs., polymer with steareth-10 allyl ether 81-13-0, Panthenol 89-65-6, Erythorbic acid 111-90-0 112-02-7, Cetrimonium chloride 112-80-1, Oleic acid, biological studies 120-40-1, Lauramide DEA 141-43-5, Ethanolamine, biological studies 142-78-9, Lauramide MEA 143-28-2, Oleyl alcohol 910-31-6, Cholesteryl chloride 1182-66-7, Cholesteryl nonanoate 2235-54-3, Ammonium lauryl sulfate 2682-20-4, Methylisothiazolinone 7558-79-4, Disodium phosphate 7664-38-2, Phosphoric acid, biological studies 7722-84-1, Hydrogen peroxide, biological studies 7757-83-7, Sodium sulfite 9004-65-3, Hydroxypropyl methylcellulose 9004-77-7 9004-82-4, Sodium laureth sulfate 9004-98-2, Oleth-20 9005-00-9,

Steareth-21 17110-51-9, Cholesteryl oleyl carbonate 17301-53-0,  
Behentrimonium chloride 24938-91-8, Trideceth-12 25038-59-9,  
Polyethylene terephthalate, biological studies 26172-55-4,  
Methylchloroisothiazolinone 42131-28-2, Isostearyl lactate 56275-01-5  
56854-73-0 81859-24-7, Polyquaternium 10 92484-48-5 93682-38-3  
102516-09-6D, polymers with acrylates **131954-48-8**,  
Polyquaternium 28 159317-32-5, Isostearyl glycolate  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(kits containing compns. for providing natural appearing **hair**  
color)  
IT 13463-67-7, Titanium dioxide, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(mixture with mica; kits containing compns. for providing natural appearing  
hair color)  
IT **131954-48-8**, Polyquaternium 28  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(kits containing compns. for providing natural appearing **hair**  
color)  
RN 131954-48-8 HCAPLUS  
CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-,  
chloride, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)  
CM 1  
CRN 51410-72-1  
CMF C10 H21 N2 O . C1



●  $\text{Cl}^-$

CM 2  
CRN 88-12-0  
CMF C6 H9 N O



L11 ANSWER 2 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:512189 HCAPLUS  
DN 141:59188  
TI Hair **compositions** comprising lecithin, surfactant and cationic  
polymer  
IN Van Nguyen, Nghi; Espino, Cynthia; Cannel, David

PA L'Oreal, Fr.  
 SO Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1430870	A2	20040623	EP 2003-293238	20031219
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004120919	A1	20040624	US 2002-323654	20021220
	JP 2004203887	A2	20040722	JP 2003-425972	20031222
PRAI	US 2002-323654	A	20021220		
AB	The present invention relates to hair compns. comprising at least one lecithin, at least one amphoteric surfactant, at least one nonionic surfactant, at least one film forming polymer, and at least one cationic polymer. The compns. are preferably used to maintain hair's natural shape and/or its curl definition.				
IC	ICM A61K007-06				
CC	62-3 (Essential Oils and Cosmetics)				
ST	hair conditioner <b>compn</b> lecithin surfactant polymer				
IT	Surfactants (amphoteric; hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Polyelectrolytes (cationic; hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Hair preparations (conditioners, styling; hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Hair preparations (conditioners; hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Hair (curly; hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	<b>Alcohols</b> , biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) ( <b>fatty</b> ; hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Polymers, biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (film forming; hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Cosmetics Shampoos (hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Betaines Fatty acids, biological studies Lecithins Resins Sulfobetaines RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair compns. comprising lecithin, surfactant and cationic polymer)				
IT	Sulfobetaines RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hydroxy; hair compns. comprising lecithin, surfactant and cationic polymer)				

IT Lecithins  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydroxylated; hair compns. comprising lecithin, surfactant and  
 cationic polymer)

IT Surfactants  
 (nonionic; hair compns. comprising lecithin, surfactant and cationic  
 polymer)

IT Lecithins  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (soya; hair compns. comprising lecithin, surfactant and cationic  
 polymer)

IT Glycerides, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (with C8 to C24 carbon chain; hair compns. comprising lecithin,  
 surfactant and cationic polymer)

IT 504-75-6, Imidazoline 26062-79-3, Polyquaternium 6 26590-05-6,  
 Polyquaternium 7 28299-33-4, Imidazoline 35429-19-7, Polyquaternium 32  
**53633-54-8**, Polyquaternium 11 53694-17-0, Polyquaternium 22  
 65497-29-2, Guar hydroxypropyltrimonium chloride. 81859-24-7,  
 Polyquaternium 10 92183-41-0, Polyquaternium 4 95144-24-4,  
 Polyquaternium 16 151013-77-3D, alkyl derivs. 234093-36-8D, alkyl  
 derivs.  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair** compns. comprising lecithin, surfactant and cationic  
 polymer)

IT **53633-54-8**, Polyquaternium 11  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair** compns. comprising lecithin, surfactant and cationic  
 polymer)

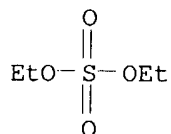
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX  
 NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

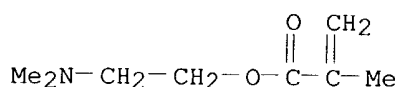
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

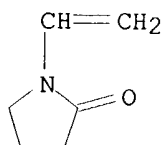
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L11 ANSWER 3 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:482161 HCAPLUS

DN 141:42534

TI Hair dyeing **composition** comprising p-phenylenediamine with a pyrrolidine ring and a polymer

IN Cotteret, Jean; Lagrange, Alain

PA L'oreal, Fr.

SO Eur. Pat. Appl., 53 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1428506	A1	20040616	EP 2003-293131	20031212
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	FR 2848433	A1	20040618	FR 2002-15766	20021213
PRAI	FR 2002-15766	A	20021213		

AB Hair dyeing **composition** comprise p-phenylenediamine with a cationic pyrrolidine ring and a polymer with fatty chains. Thus, a **compn** . contained oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, ACP-1234 0.2, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above **composition** was mixed with 6% H2O2 and applied onto hair.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST phenylenediamine pyrrolidine polymer hair dye

IT Phenols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(amino; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)

IT Surfactants

(amphoteric; hair dyeing **composition** comprising phenylenediamine



- IT with pyrrolidine ring and polymer)
- IT Polyelectrolytes
  - Surfactants
    - (anionic; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Polyelectrolytes
  - Surfactants
    - (cationic; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Amines, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
    - (diamines, aromatic; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Hair preparations
  - (**dyes, oxidative**; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Hair preparations
  - (**dyes**; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT **Oxidizing** agents
  - Surfactants
    - Thickening agents
      - (hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Bromates
  - Ethers, biological studies
  - Polyurethanes, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
    - (hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Surfactants
  - (nonionic; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Carboxylic acids, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
    - (peroxy; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Amines, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
    - (phenolic; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Carboxylic acids, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
    - (salts, peroxy; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT Surfactants
  - (zwitterionic; hair dyeing **composition** comprising phenylenediamine with pyrrolidine ring and polymer)
- IT 56-81-5, Glycerol, biological studies 57-55-6, Propylene glycol, biological studies 64-17-5, Ethanol, biological studies 79-10-7D, Acrylic acid, esters, polymers 79-41-4D, Methacrylic acid, esters, polymers 90-15-3,  $\alpha$ -Naphthol 95-55-6D, o-Aminophenol, derivs. 95-88-5, 4-ChloroResorcinol 106-50-3D, p-Phenylenediamine, derivs. 108-45-2, 1,3-Diaminobenzene, biological studies 108-45-2D, m-Phenylenediamine, derivs. 108-46-3, Resorcinol, biological studies 108-46-3D, Resorcinol, derivs. 123-30-8D, p-Aminophenol, derivs. 124-43-6 533-31-3, Sesamol 591-27-5D, m-Aminophenol, derivs. 608-25-3, 2-MethylResorcinol 2380-86-1, 6-Hydroxyindole 2380-94-1,

4-Hydroxyindole 7469-77-4, 2-Methyl-1-Naphthol 7556-37-8,  
4-Hydroxy-N-methylindole 7722-84-1, Hydrogen peroxide, biological  
studies 9003-39-8D, Polyvinylpyrrolidone, cationic derivs. 9004-34-6D,  
Cellulose, cationic derivs. 9035-73-8, **Oxidase** 16867-03-1,  
2-Amino-3-hydroxypyridine 25711-72-2, 3-Ureido aniline 26021-57-8,  
6-Hydroxybenzomorpholine 26455-21-0 28062-60-4, Acrylic acid-lauryl  
methacrylate copolymer 70643-19-5 81329-90-0 81892-72-0  
85679-78-3, 3,5-DiAmino-2,6-dimethoxypyridine 138789-85-2, Pemulen TR1  
146701-61-3, Carbopol 1382 149330-25-6 **306769-69-7**  
**306769-73-3** 402941-00-8 435275-61-9 435275-62-0  
435275-65-3 435275-66-4 435275-67-5 435275-68-6 435275-69-7  
435275-70-0 435275-72-2 435275-73-3 435275-74-4 435275-82-4  
607355-12-4 607355-13-5 607355-16-8 607355-17-9 607355-18-0  
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701975-17-9 701975-18-0 701975-19-1 701975-20-4 701975-21-5  
701975-22-6 701975-23-7 701975-24-8 701975-25-9 701975-26-0  
701975-27-1 701975-28-2 701975-29-3 701975-30-6 701975-31-7  
701975-32-8 701975-33-9 701975-34-0 701975-35-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dyeing composition comprising phenylenediamine with pyrrolidine ring and polymer)

IT 306769-69-7 306769-73-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dyeing composition comprising phenylenediamine with pyrrolidine ring and polymer)

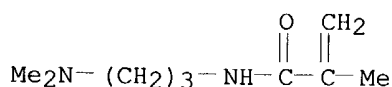
RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 5205-93-6

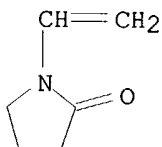
CMF C9 H18 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

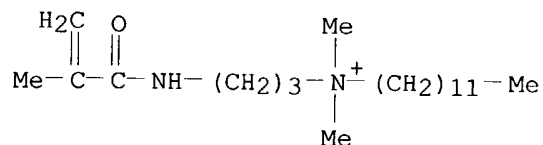
CRN 306769-68-6

CMF C21 H43 N2 O . C7 H7 O3 S

CM 4

CRN 129684-48-6

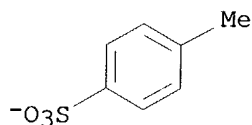
CMF C21 H43 N2 O



CM 5

CRN 16722-51-3

CMF C7 H7 O3 S



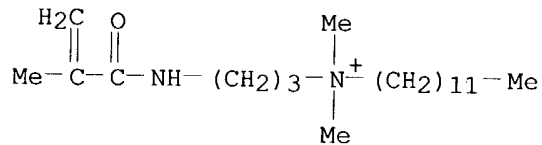
RN 306769-73-3 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 126758-30-3

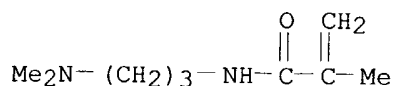
CMF C21 H43 N2 O . Cl



● Cl<sup>-</sup>

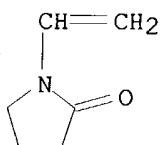
CM 2

CRN 5205-93-6  
CMF C9 H18 N2 O



CM 3

CRN 88-12-0  
CMF C6 H9 N O



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:333543 HCAPLUS  
DN 140:362540  
TI **Dyeing composition** for **oxidation** of  
keratinic fibers containing a cationic poly(vinyl lactam) and at least an  
**oxidizing dye** in the form of sulfate ion  
IN Cottard, Francois; Rondeau, Christine  
PA L'Oreal, Fr.  
SO Fr. Demande, 60 pp.  
CODEN: FRXXBL  
DT Patent  
LA French  
FAN.CNT 1

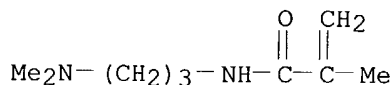
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2845909	A1	20040423	FR 2002-13102	20021021
	EP 1413288	A1	20040428	EP 2003-292608	20031021
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004133993	A1	20040715	US 2003-688958	20031021
	JP 2004217624	A2	20040805	JP 2003-394731	20031021
PRAI	FR 2002-13102	A	20021021		
	US 2003-475490P	P	20030604		
AB	A <b>composition</b> for <b>oxidative dyeing</b> of keratinous fibers, in particular human hair, comprises at least an <b>oxidative dye</b> in the form of sulfate ion at a concentration of $\geq 2\%$ and a cationic poly(vinyl lactam). Formulation of an <b>oxidative hair dye</b> containing fatty acids and Polymer ACP-1234 is disclosed.				
IC	ICM A61K007-13				
CC	62-3 (Essential Oils and Cosmetics)				
ST	<b>oxidative hair dye</b> cationic polyvinyl lactam sulfate ion				
IT	Polyelectrolytes				

- (amphoteric; **dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- IT Polyelectrolytes  
(cationic; **dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- IT Human  
(**dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- IT Acrylic polymers, biological studies  
Sulfates, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- IT Hair preparations  
(**dyes, oxidative; dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- IT Quaternary ammonium compounds, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polymers; **dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- IT 55-55-0 88-12-0D, polymers with methacrylamides 5205-93-6D, cocoyl derivs., polymers with vinylpyrrolidone and methacrylamides 6369-59-1 58262-44-5 155601-17-5 159621-77-9 164919-03-3 **306769-69-7**  
**306769-73-3** 444572-28-5, ACP-1234  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- IT **306769-69-7 306769-73-3**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**dyeing composition** for **oxidation** of keratinic fibers containing cationic poly(vinyl lactam) and at least **oxidizing dye** in form of sulfate ion)
- RN 306769-69-7 HCAPLUS
- CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

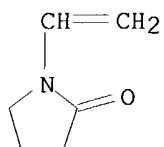
CRN 5205-93-6

CMF C9 H18 N2 O



CM 2

CRN 88-12-0  
CMF C6 H9 N O

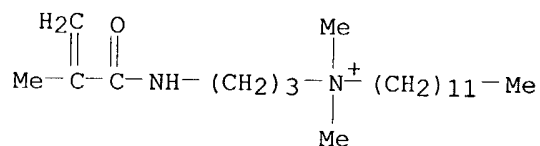


CM 3

CRN 306769-68-6  
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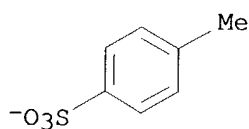
CM 4

CRN 129684-48-6  
CMF C21 H43 N2 O



CM 5

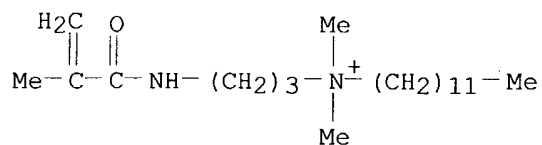
CRN 16722-51-3  
CMF C7 H7 O3 S



RN 306769-73-3 HCAPLUS  
CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 126758-30-3  
CMF C21 H43 N2 O . Cl

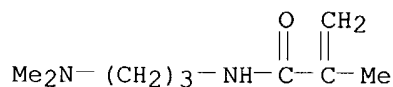


● Cl<sup>-</sup>

CM 2

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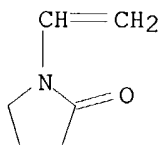
CMF C9 H18 N2 O



CM 3

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:329901 HCAPLUS

DN 140:344499

TI **Oxidative hair dye compositions** comprising a  
cationic poly(vinyl lactam) and at least a C10-14 **fatty**  
**alcohol**

IN Cottard, Francois; Rondeau, Christine

PA L'oreal, Fr.

SO Fr. Demande, 59 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	FR 2845908	A1	20040423	FR 2002-13100	20021021
	EP 1413289	A1	20040428	EP 2003-292609	20031021

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 US 2004133994 A1 20040715 US 2003-688970 20031021  
 PRAI FR 2002-13100 A 20021021  
 US 2003-475495P P 20030604

AB A **composition** for **oxidative dyeing** of keratin  
 fibers, in particular human hair, comprises at least an **oxidative  
 dye** and at least a C10-14 **fatty alc.** and a  
 cationic poly(vinyl lactam). Formulation of an **oxidative hair  
 dye** containing **fatty alcs.** and Polymer ACP-1234 is  
 disclosed.

IC ICM A61K007-13  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST **oxidative hair dye** cationic polyvinyl lactam  
**fatty alc**

IT Polyelectrolytes  
 Surfactants  
 (amphoteric; **oxidative hair dye** compns. comprising  
 cationic poly(vinyl lactam) and C10-14 **fatty alcs.**)

IT Surfactants  
 (anionic; **oxidative hair dye** compns. comprising  
 cationic poly(vinyl lactam) and C10-14 **fatty alcs.**)

IT Polyelectrolytes  
 Surfactants  
 (cationic; **oxidative hair dye** compns. comprising  
 cationic poly(vinyl lactam) and C10-14 **fatty alcs.**)

IT Quaternary ammonium compounds, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cocoalkyl methacrylamido-containing, polymers; **oxidative hair  
 dye** compns. comprising cationic poly(vinyl lactam) and C10-14  
**fatty alcs.**)

IT Hair preparations  
 (dyes, **oxidative hair  
 dye** compns. comprising cationic poly(vinyl lactam) and C10-14  
**fatty alcs.**)

IT **Alcohols**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**fatty**, ethoxylated, C10-14; **oxidative hair  
 dye** compns. comprising cationic poly(vinyl lactam) and C10-14  
**fatty alcs.**)

IT **Alcohols**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**fatty; oxidative hair dye** compns.  
 comprising cationic poly(vinyl lactam) and C10-14 **fatty  
 alcs.**)

IT Surfactants  
 (nonionic; **oxidative hair dye** compns. comprising  
 cationic poly(vinyl lactam) and C10-14 **fatty alcs.**)

IT **Oxidizing agents**  
 Thickening agents  
 (**oxidative hair dye** compns. comprising cationic  
 poly(vinyl lactam) and C10-14 **fatty alcs.**)

IT Bromates  
 Ionene polymers  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**oxidative hair dye** compns. comprising cationic  
 poly(vinyl lactam) and C10-14 **fatty alcs.**)

IT Enzymes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)



(oxidizing; oxidative hair dye compns.  
comprising cationic poly(vinyl lactam) and C10-14 fatty  
alcs.)

IT Lactams

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(poly lactams, vinyl group-containing; oxidative hair dye  
compns. comprising cationic poly(vinyl lactam) and C10-14 fatty  
alcs.)

IT 79-10-7D, Acrylic acid, polymers with dimethyldiallylammonium salts  
88-12-0D, NVP, polymers with aminopropylmethacrylamide and  
cocoylmethacrylamidopropylammonium derivs. 95-55-6, 2-Aminophenol  
95-55-6D, o-Aminophenol, derivs. 106-50-3D, 1,4-Benzenediamine, derivs.  
108-45-2D, m-Phenylenediamine, derivs. 108-46-3, Resorcinol, biological  
studies 112-53-8, Lauryl alcohol 112-72-1, Myristyl alcohol  
123-30-8, 4-Aminophenol 123-30-8D, p-Aminophenol, derivs. 123-96-6,  
Capryl alcohol 124-43-6 591-27-5, 3-Aminophenol 591-27-5D,  
m-Aminophenol, derivs. 608-25-3, 2-MethylResorcinol 7722-84-1,  
Hydrogen peroxide, biological studies 9002-92-0, Ethoxylated Lauryl  
alcohol 26183-52-8 48042-45-1D, Dimethyldiallylammonium, salts,  
polymers with acrylic acid 67296-21-3D, Dimethylaminopropylmethacrylamid  
e, polymers with vinylpyrrolidone and cocoylmethacrylamidopropylammonium  
derivs. 68393-49-7 223104-80-1 306769-68-6 **306769-69-7**  
**306769-73-3** 444572-28-5, ACP-1234

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dye compns. comprising  
cationic poly(vinyl lactam) and C10-14 fatty alcs.)

IT **306769-69-7 306769-73-3**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dye compns. comprising  
cationic poly(vinyl lactam) and C10-14 fatty alcs.)

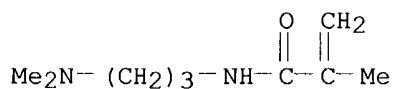
RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-  
propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1),  
polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and  
1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 5205-93-6

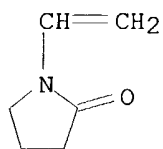
CMF C9 H18 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

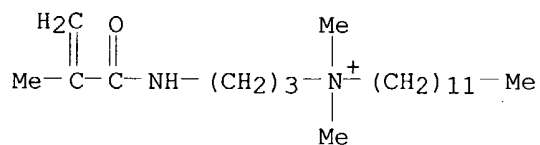
CRN 306769-68-6

CMF C21 H43 N2 O . C7 H7 O3 S

CM 4

CRN 129684-48-6

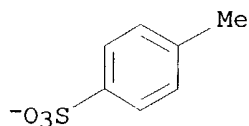
CMF C21 H43 N2 O



CM 5

CRN 16722-51-3

CMF C7 H7 O3 S



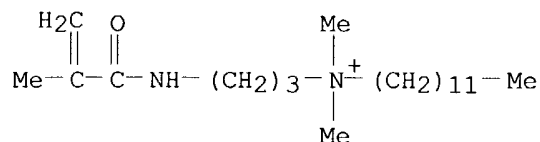
RN 306769-73-3 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 126758-30-3

CMF C21 H43 N2 O . C1

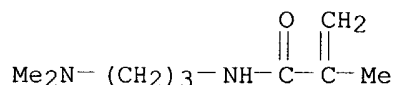


● Cl<sup>-</sup>

CM 2

CRN 5205-93-6

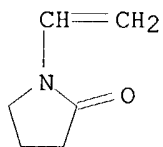
CMF C9 H18 N2 O



CM 3

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:329900 HCAPLUS

DN 140:344498

TI **Oxidative hair dye compositions** comprising a cationic poly(vinyl lactam) and a C10-14 fatty acid

IN Cottard, Francois; Rondeau, Christine

PA L'oreal, Fr.

SO Fr. Demande, 58 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2845907	A1	20040423	FR 2002-13099	20021021
	EP 1413287	A1	20040428	EP 2003-292604	20031020
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2004149539	A2	20040527	JP 2003-394730	20031021
US 2004133995	A1	20040715	US 2003-690696	20031021

PRAI FR 2002-13099 A 20021021

US 2003-475489P P 20030604

AB A **composition** for **oxidative dyeing** of keratinous fibers, in particular human hair, comprises at least an **oxidative dye** and at least a C10-14 fatty acid and a cationic poly(vinyl lactam). The formulation of an **oxidative hair dye** containing fatty acids and Polymer ACP-1234 is disclosed.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST **oxidative hair dye** cationic polyvinyl lactam fatty acid

IT Fatty acids, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C10-14; **oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Polyelectrolytes

Surfactants

(amphoteric; **oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Surfactants

(anionic; **oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Polyelectrolytes

Surfactants

(cationic; **oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Quaternary ammonium compounds, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(cocoalkyl methacrylamido-containing, polymers; **oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Hair preparations

(**dyes, oxidative; oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Surfactants

(nonionic; **oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Human

**Oxidizing agents**

Reducing agents

Thickening agents

(**oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Acrylic polymers, biological studies

Bromates

Ionene polymers

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Enzymes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**oxidizing; oxidative hair dye** compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT Lactams

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polylactams, vinyl group-containing; **oxidative hair dye**

compsn. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT 79-10-7D, Acrylic acid, polymers with polymers with dimethyldiallylammonium salts 88-12-0D, NVP, polymers with aminopropylmethacrylamide and cocoylmethacrylamidopropylammonium derivs. 95-55-6, o-Aminophenol 95-55-6D, o-Aminophenol, derivs. 106-50-3, p-Phenylenediamine, biological studies 106-50-3D, p-Phenylenediamine, derivs. 108-45-2D, m-Phenylenediamine, derivs. 108-46-3, Resorcinol, biological studies 108-46-3D, Resorcinol, derivs. 123-30-8, p-Aminophenol 123-30-8D, p-Aminophenol, derivs. 124-43-6 143-07-7, Lauric acid, biological studies 334-48-5, Capric acid 544-63-8, Myristic acid, biological studies 591-27-5, m-Aminophenol 591-27-5D, m-Aminophenol, derivs. 608-25-3, 2-MethylResorcinol 7722-84-1, Hydrogen peroxide, biological studies 48042-45-1D, Dimethyldiallylammonium, salts, polymers with acrylic acid 67296-21-3D, Dimethylaminopropylmethacrylamide, polymers with vinylpyrrolidone and cocoylmethacrylamidopropylammonium derivs. 68393-49-7 223104-80-1 306769-68-6 306769-69-7 306769-73-3 444572-28-5, ACP-1234

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair dye compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

IT 306769-69-7 306769-73-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair dye compns. comprising cationic poly(vinyl lactam) and C10-14 fatty acid)

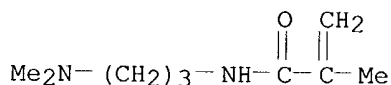
RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 5205-93-6

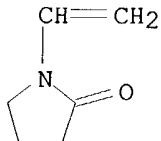
CMF C9 H18 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O

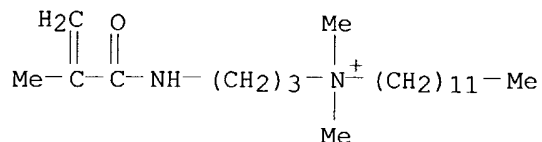


CM 3

CRN 306769-68-6  
CMF C21 H43 N2 O . C7 H7 O3 S

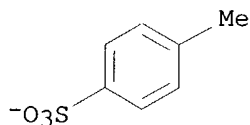
CM 4

CRN 129684-48-6  
CMF C21 H43 N2 O



CM 5

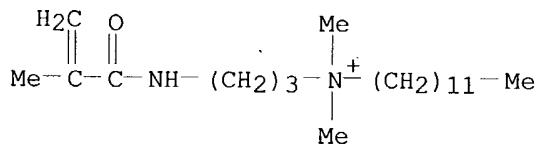
CRN 16722-51-3  
CMF C7 H7 O3 S



RN 306769-73-3 HCAPLUS  
CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

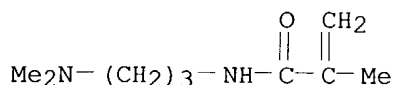
CRN 126758-30-3  
CMF C21 H43 N2 O . Cl



● Cl<sup>-</sup>

CM 2

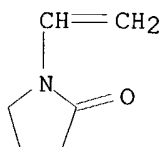
CRN 5205-93-6  
CMF C9 H18 N2 O



CM 3

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:574894 HCAPLUS  
DN 137:145185  
TI Reducing **composition** for treating keratinous materials  
comprising a cationic poly(vinyl lactam)  
IN Legrand, Frederic; De La Mettrie, Roland  
PA L'Oreal, Fr.  
SO PCT Int. Appl., 44 pp.  
CODEN: PIXXD2  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002058661	A1	20020801	WO 2002-FR254	20020122
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	FR 2820035	A1	20020802	FR 2001-1105	20010126
	FR 2820035	B1	20030502		
	EP 1357891	A1	20031105	EP 2002-700363	20020122
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	FR 2001-1105	A	20010126		
	WO 2002-FR254	W	20020122		
AB	The invention concerns a cosmetic <b>composition</b> for treating keratinous materials comprising in a carrier suited for the keratinous materials: (i) at least a reducing agent and (ii) at least a cationic poly(vinyl lactam),				

and its used for bleaching and permanent waving of keratinous fibers. The invention also concerns methods and devices for bleaching and permanent waving of keratinous fibers using said **composition**. An aqueous hair bleach contained citric acid 7.4, trisodium citrate dihydrate 1, hydroxyethyl cellulose 1.5, 2-oxoglutaric acid 0.8, sodium ascorbate 5.7, L-cysteine 2, Polymer ACP-1234 (an ammonium acrylate terpolymer) 0.3, magnesium sulfate 1, and water q.s. 100 g.

- IC ICM A61K007-135
- ICS A61K007-09; A61K007-06
- CC 62-3 (Essential Oils and Cosmetics)
- ST reducing **compn** cationic polyvinylactam hair bleach
- IT Lactams
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (N-vinyl, polymers; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Carbonates, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (alkali salts; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Alcohols, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (amino; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Surfactants
  - (amphoteric; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Surfactants
  - (anionic; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Hair preparations
  - (bleaches; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Surfactants
  - (cationic; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Hair preparations
  - (**dyes, oxidative**; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Acids, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (inorg.; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Surfactants
  - (nonionic; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Acids, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (organic; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Hair preparations
  - (permanent wave; reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Reducing agents
  - Surfactants
  - (reducing **composition** for treating keratinous materials comprising cationic poly(vinylactam))
- IT Acids, biological studies
  - Alkali metal hydroxides
  - Carboxylic acids, biological studies



## Sulfites

Sulfonic acids, biological studies

Thiols (organic), biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(reducing **composition** for treating keratinous materials comprising cationic poly(vinyl lactam))

IT 50-21-5, Lactic acid, biological studies 50-81-7, Ascorbic acid, biological studies 52-90-4, Cystein, biological studies 60-23-1, Cysteamine 68-11-1, Thioglycolic acid, biological studies 74-79-3, Arginine, biological studies 77-92-9, Citric acid, biological studies 88-12-0D, polymers with cocoalkylammonium dimethylaminopropylmethacrylamides 89-65-6, Erythorbic acid 102-71-6, Triethanolamine, biological studies 111-42-2, Diethanolamine, biological studies 134-03-2, Sodium ascorbate 141-43-5, Monoethanolamine, biological studies 328-50-7, 2-Oxoglutaric acid 506-87-6, Ammonium carbonate 526-83-0, Tartaric acid 1310-58-3, Potassium hydroxide, biological studies 1310-73-2, Sodium hydroxide, biological studies 5205-93-6D, cocoalkylammonium derivs., polymers with vinylpyrrolidone and dimethylaminopropylmethacrylamide 7647-01-0, Hydrochloric acid, biological studies 7664-38-2, Orthophosphoric acid, biological studies 7664-41-7, Ammonia, biological studies 52503-47-6 **306769-69-7 306769-73-3** 444572-28-5, ACP 1234

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

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(reducing composition for treating keratinous materials
comprising cationic poly(vinyl lactam))
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IT 306769-69-7 306769-73-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

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(reducing composition for treating keratinous materials
comprising cationic poly(vinyl lactam))
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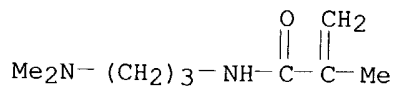
RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

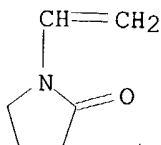
CRN 5205-93-6

CMF C9 H18 N2 O



CM 2

CRN 88-12-0

C6H9NO

CM 3

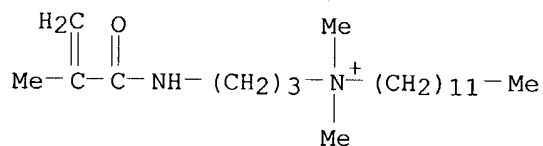
CRN 306769-68-6

CMF C21 H43 N2 O . C7 H7 O3 S

CM 4

CRN 129684-48-6

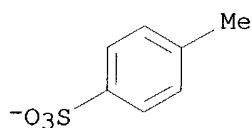
CMF C21 H43 N2 O



CM 5

CRN 16722-51-3

CMF C7 H7 O3 S



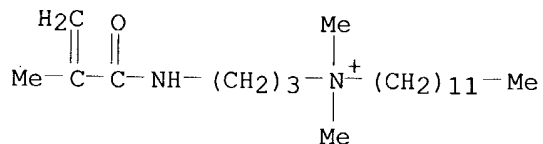
RN 306769-73-3 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

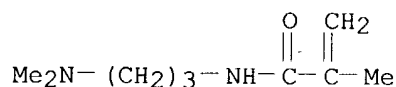
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CMF C21 H43 N2 O . Cl

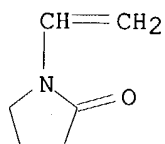


● Cl<sup>-</sup>

CM 2

CRN 5205-93-6  
CMF C9 H18 N2 O

CM 3

CRN 88-12-0  
CMF C6 H9 N O

RE.CNT 2      THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:574893 HCAPLUS  
DN 137:145184  
TI Oxidizing **composition** for the treatment of keratin comprising a  
cationic poly(vinyl lactam)  
IN Legrand, Frederic; De La Mettrie, Roland  
PA L'Oreal, Fr.  
SO PCT Int. Appl., 47 pp.  
CODEN: PIXXD2  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002058660	A1	20020801	WO 2002-FR252	20020122
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	FR 2820034	A1	20020802	FR 2001-1113	20010126
	FR 2820034	B1	20030502		
	EP 1357890	A1	20031105	EP 2002-700361	20020122
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	FR 2001-1113	A	20010126		

WO 2002-FR252 W 20020122

AB The invention relates to a cosmetic **composition** intended for the treatment of keratin, comprising: (i) at least one oxidant and (ii) at least one cationic poly(vinyl lactam) in a suitable medium for keratin. The invention also relates to uses for said **composition** for the dyeing, bleaching and permanent waving of keratin fibers. Moreover, the invention relates to the methods and devices using said **composition** for the bleaching, dyeing or permanent waving of keratin fibers. A hair bleach contained 200 volume hydrogen peroxide 12, Polymer ACP-1234 (a quaternary ammonium acrylic polymer) 0.3, pH-adjusting agent 4.7, and water q.s. 100 g.

IC ICM A61K007-135  
ICS A61K007-09; C01B015-00

CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 38

ST hair **dye** bleach wave **oxidant** cationic polyvinyl lactam

IT Lactams  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(N-vinyl, polymers; oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT Diphosphates  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(alkali metal salts; oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT Hair preparations  
(bleaches; oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT Hair preparations  
(**dyes, oxidative; oxidizing compn**  
. for treatment of keratin comprising cationic poly(vinyl lactam))

IT Oxidizing agents  
Stabilizing agents  
(oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT Peroxysulfates  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT Group IIIA element compounds  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(perborates; oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT Hair preparations  
(permanent wave; oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT Group IVA element compounds  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(stannates, alkali metal salts; oxidizing **composition** for treatment of keratin comprising cationic poly(vinyl lactam))

IT 62-44-2, Phenacetin 68-11-1, Thioglycolic acid, biological studies  
88-12-0D, polymers with cocoalkyl ammonium dimethylaminopropylmethacrylamides 124-43-6 5205-93-6D, cocoalkyl ammonium derivs., polymers with vinylpyrrolidone and dimethylaminopropylmethacrylamide 6834-92-0, Sodium metasilicate 7722-84-1, Hydrogen peroxide, biological studies  
7775-27-1, Sodium persulfate 306769-69-7 306769-73-3  
444572-28-5, ACP 1234  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidizing **composition** for treatment of **keratin** comprising cationic poly(vinyl lactam))

IT 306769-69-7 306769-73-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidizing **composition** for treatment of **keratin**  
comprising cationic poly(vinyl lactam))

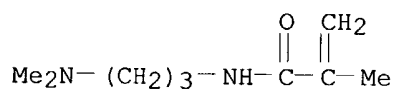
RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 5205-93-6

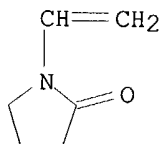
CMF C9 H18 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

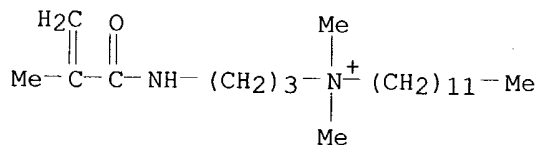
CRN 306769-68-6

CMF C21 H43 N2 O . C7 H7 O3 S

CM 4

CRN 129684-48-6

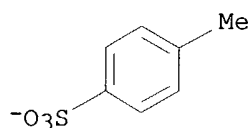
CMF C21 H43 N2 O



CM 5

CRN 16722-51-3

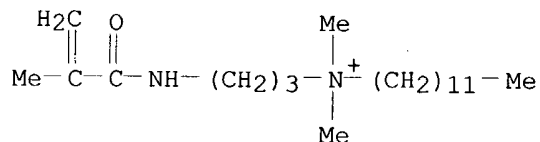
CMF C7 H7 O3 S



RN 306769-73-3 HCAPLUS  
 CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

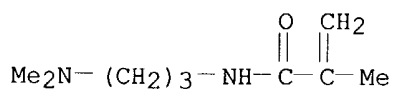
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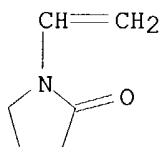
CM 2

CRN 5205-93-6  
 CMF C9 H18 N2 O .



CM 3

CRN 88-12-0  
 CMF C6 H9 N O



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:574881 HCAPLUS  
DN 137:129536  
TI **Composition** for direct dyeing of keratinous fibers comprising a  
poly(vinyl lactam)  
IN Cottard, Francois; De La Mettrie, Roland  
PA L'Oreal, Fr.  
SO PCT Int. Appl., 44 pp.  
CODEN: PIXXD2  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002058648	A1	20020801	WO 2002-FR255	20020122
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	FR 2820033	A1	20020802	FR 2001-1109	20010126
	FR 2820033	B1	20030502		
	EP 1357886	A1	20031105	EP 2002-700364	20020122
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	FR 2001-1109	A	20010126		
	WO 2002-FR255	W	20020122		
AB	The invention relates to a <b>composition</b> direct dyeing of keratinous fibers, in particular for human keratin fibers and more specifically hair, comprising at least a direct dye and at least a cationic poly(vinyl lactam). The invention also relates to the dyeing methods and devices using said <b>composition</b> . A hair dye contained ethoxylated <b>fatty alcs.</b> 32.5, oleic acid 2, oleyl <b>alc.</b> 1.8, <b>fatty</b> amides 4, glycerin 3, 60% cationic polymer 2, Merquat-280 2, 20% ammonia 8, diamino-1,4-nitro-2-benzene 0.6, Polymer ACP-1234 0.3, sequestering agents, reducing agents, and water q.s. 100%. An oxidant <b>composition</b> contained <b>fatty alcs.</b> 2.3, ethoxylated <b>fatty alc.</b> 0.6, <b>fatty</b> amines 0.9, glycerin 0.5, hydrogen peroxide 7.5, perfumes q.s., and water q.s. 100%. One part of the dye <b>composition</b> is mixed with 1.5 parts of oxidant <b>composition</b> and mixed, the mixture is then applied on the hair for 30 min. The hair is then rinsed with water, washed with a shampoo, and rinsed with water to obtain a strong red color.				
IC	ICM A61K007-06				
	ICS A61K007-13				
CC	62-3 (Essential Oils and Cosmetics) Section cross-reference(s): 38				
ST	<b>oxidative</b> hair <b>dye</b> cationic polyvinyl lactam				
IT	Lactams RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (N-vinyl, polymers; <b>composition</b> for direct dyeing of keratinous				

fibers comprising poly(vinyl lactam))

IT Polyelectrolytes  
Surfactants  
(amphoteric; **composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Surfactants  
(anionic; **composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Polyelectrolytes  
Surfactants  
(cationic; **composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Azo dyes  
Coupling agents  
Human  
Oxidizing agents  
Surfactants  
Thickening agents  
(**composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Enzymes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Dyes  
(direct; **composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Hair preparations  
(**dyes, oxidative; composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Surfactants  
(nonionic; **composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Salts, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(of oxy acids; **composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT Quaternary ammonium compounds, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polymers; **composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT 88-12-0D, polymers with cocoalkylammoniumdimethylaminopropylmethacrylamide s 124-43-6 5205-93-6D, cocoalkylammonium derivs., polymers with vinylpyrrolidone and dimethylaminopropylmethacrylamide 7722-84-1, Hydrogen peroxide, biological studies 9000-30-0, Guar gum 9004-34-6D, Cellulose, derivs. 9055-15-6, **Oxidoreductase** 53694-17-0, Merquat-280 **306769-69-7 306769-73-3** 444311-98-2D, salt derivs.  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

IT **306769-69-7 306769-73-3**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**composition** for direct dyeing of keratinous fibers comprising poly(vinyl lactam))

RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and

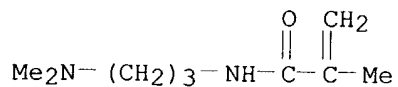


1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 5205-93-6

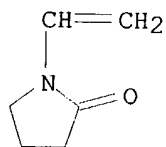
CMF C9 H18 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

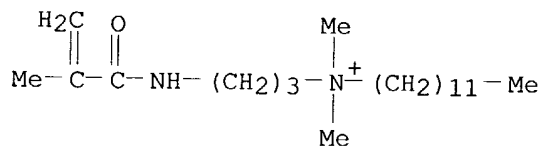
CRN 306769-68-6

CMF C21 H43 N2 O . C7 H7 O3 S

CM 4

CRN 129684-48-6

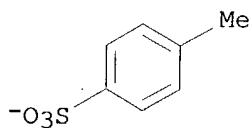
CMF C21 H43 N2 O



CM 5

CRN 16722-51-3

CMF C7 H7 O3 S

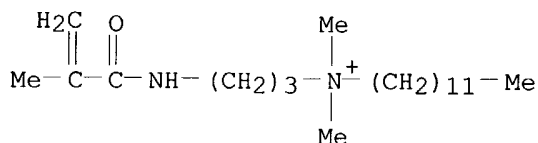


RN 306769-73-3 HCAPLUS  
 CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 126758-30-3

CMF C21 H43 N2 O . Cl

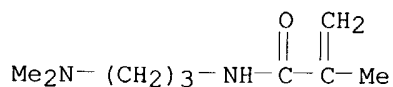


● Cl<sup>-</sup>

CM 2

CRN 5205-93-6

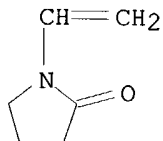
CMF C9 H18 N2 O



CM 3

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:574880 HCAPLUS

DN 137:145181

TI **Oxidative hair dyes** comprising a cationic poly(vinyl lactam)

IN Cottard, Francois; De La Mettrie, Roland  
 PA L'Oreal, Fr.  
 SO PCT Int. Appl., 50 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA French  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002058647	A1	20020801	WO 2002-FR253	20020122
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	FR 2820032	A1	20020802	FR 2001-1106	20010126
	FR 2820032	B1	20030502		
	EP 1357885	A1	20031105	EP 2002-700362	20020122
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004520369	T2	20040708	JP 2002-558981	20020122
	US 2004205901	A1	20041021	US 2004-470131	20040326
PRAI	FR 2001-1106	A	20010126		
	WO 2002-FR253	W	20020122		

OS MARPAT 137:145181

AB The invention relates to an **oxidation-dyeing composition** for keratin fibers, in particular for human keratin fibers and more specifically hair, comprising at least one **oxidation dye** and a cationic poly(vinyl lactam) in a medium suitable for dyeing. The invention also relates to the dyeing methods and devices using said **composition**. A hair dye contained ethoxylated **fatty alcs.** 32.5, oleic acid 2, oleyl **alc.** 1.8, **fatty** amides 4, glycerin 3, 60% cationic polymer 2, Merquat-280 2, 20% ammonia 8, para-phenylenediamine 0.32, 2-methyl-4-aminophenol 0.369, Polymer ACP-1234 1.0, sequestering agents, reducing agents, and water q.s. 100%. An oxidant **composition** contained **fatty alcs.** 2.3, ethoxylated **fatty alc.** 0.6, **fatty** amines 0.9, glycerin 0.5, hydrogen peroxide 7.5, perfumes q.s., and water q.s. 100%. One part of the dye **composition** is mixed with 1.5 parts of oxidant **composition** and mixed, the mixture is then applied on the hair for 30 min. The hair is then rinsed with water, washed with a shampoo, and rinsed with water to obtain a strong purple-red color.

IC ICM A61K007-06

ICS A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

ST **oxidative** hair **dye** cationic polyvinyl lactam

IT Lactams

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(N-vinyl, polymers; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Polyelectrolytes

Surfactants

(amphoteric; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Surfactants  
(anionic; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Polyelectrolytes  
Surfactants  
(cationic; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT **Dyes**  
(direct; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Hair preparations  
(**dyes**, **oxidative**; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Salts, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(of oxy acids; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Coupling agents  
Human  
Oxidizing agents  
Reducing agents  
Surfactants  
Thickening agents  
(**oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Enzymes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT Quaternary ammonium compounds, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polymers; **oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

IT 88-12-0D, polymers with cocoalkylammonium dimethylaminopropylmethacrylamides 95-55-6D, derivs. 108-45-2D, 1,3-Benzenediamine, derivs. 110-86-1D, Pyridine, derivs. 123-30-8D, derivs. 124-43-6 289-95-2D, Pyrimidine, derivs. 591-27-5D, derivs. 5205-93-6D, cocoalkylammonium derivs., polymers with vinylpyrrolidone and dimethylaminopropylmethacrylamide 7722-84-1, Hydrogen peroxide, biological studies 9000-30-0, Guar gum 9004-34-6D, Cellulose, derivs. 9055-15-6, **Oxidoreductase** 36118-45-3D, Pyrazoline, derivs. 53694-17-0, Merquat-280  
**306769-69-7 306769-73-3** 444572-28-5, ACP 1234  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

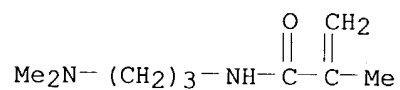
IT **306769-69-7 306769-73-3**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**oxidative** hair **dyes** comprising cationic poly(vinyl lactam))

RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

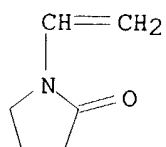
CM 1

CRN 5205-93-6  
CMF C9 H18 N2 O



CM 2

CRN 88-12-0  
CMF C6 H9 N O

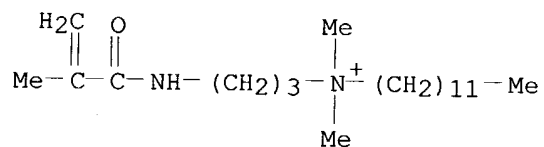


CM 3

CRN 306769-68-6  
CMF C21 H43 N2 O . C7 H7 O3 S

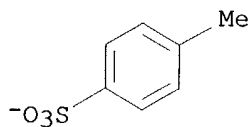
CM 4

CRN 129684-48-6  
CMF C21 H43 N2 O



CM 5

CRN 16722-51-3  
CMF C7 H7 O3 S



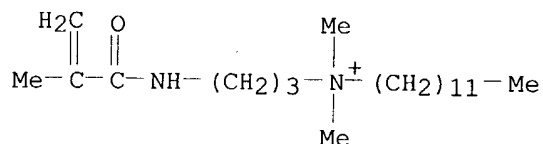
RN 306769-73-3 HCAPLUS  
CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-

(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 126758-30-3

CMF C21 H43 N2 O . Cl

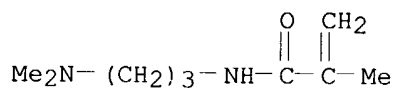


● Cl<sup>-</sup>

CM 2

CRN 5205-93-6

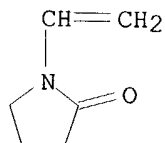
CMF C9 H18 N2 O



CM 3

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:465766 HCAPLUS

DN 137:51984

TI Hair conditioning **compositions** containing polysiloxanes and  
their use in hair coloring **compositions**

IN Hammond, Roger Clive; Jones, Stevan David; Geary, Nicholas William

PA The Procter & Gamble Company, USA

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002047632	A2	20020620	WO 2001-US48600	20011207
	WO 2002047632	A3	20030206		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002030903	A5	20020624	AU 2002-30903	20011207
	EP 1341502	A2	20030910	EP 2001-991160	20011207
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004515517	T2	20040527	JP 2002-549208	20011207
	US 2003219399	A1	20031127	US 2003-460068	20030612
PRAI	GB 2000-30369	A	20001213		
	GB 2001-20048	A	20010816		
	WO 2001-US48600	W	20011207		

AB The present invention relates to a hair care **composition** comprising an aminofunctional polysiloxane (0.1-10%) having a specified average effective particle size (10-30  $\mu$ m) which provides improved durable conditioning, particularly when utilized in conjunction with a hair coloring

**composition**

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

ST polysiloxane hair conditioner **oxidative dye**

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(3-[(2-aminoethyl)amino]-2-methylpropyl Me, di-Me, Q 2-8220; hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C16-18, ethoxylated, cetareth 25; hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(amino-containing; hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT Polyelectrolytes

(cationic; hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT Hair preparations

(conditioners; hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT Hair preparations

(**dyes, oxidative**; hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT Hair

Particle size

Surfactants

(hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT Human

(hair; hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT 64-02-8, Tetrasodium EDTA 100-51-6, Benzyl Alcohol, biological studies 112-92-5, Stearyl Alcohol 122-99-6, Phenoxyethanol 532-32-1, Sodium Benzoate 1336-21-6, Ammonium hydroxide 4098-71-9D, IPDI, reaction products with DiPEG-2 Soyamine 9005-00-9, Steareth 2 24739-33-1D, N-soya alkyl derivs. 36653-82-4, Cetyl Alcohol 37099-91-5D, soya derivs., reaction products with IPDI 58846-77-8, Decyl glucoside 437984-20-8, Lowenol S 216

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair conditioning compns. containing aminofunctional polysiloxanes and their use in hair coloring compns.)

IT 89-25-8, 1-Phenyl-3-methyl-5-pyrazolone 95-55-6, o-Aminophenol 106-50-3, p-Phenylenediamine, biological studies 108-46-3, Resorcinol, biological studies 123-30-8, p-Aminophenol 150-75-4, p-Methylaminophenol 591-27-5, m-Aminophenol 608-25-3, 2-Methyl resorcinol 1321-67-1, Naphthol 2835-95-2, 4-Amino-2-hydroxytoluene 6369-59-1 7722-84-1, Hydrogen peroxide, biological studies 16867-03-1, 2-Amino-3-Hydroxypyridine 25723-55-1, m-Phenylenediamine-sulfate 26062-79-3, Polyquaternium 6 26590-05-6, Polyquaternium 7 53633-54-8, Polyquaternium 11 55302-96-0 58262-44-5 65497-29-2, Guar hydroxypropyltrimonium chloride 81859-24-7, Polyquaternium 10 95144-24-4, Polyquaternium 16 98616-25-2, Quatrisoft LM 200 164919-03-3 437984-38-8, SF 1923

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair conditioning compns. containing polysiloxanes in hair coloring compns.)

IT 53633-54-8, Polyquaternium 11

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair conditioning compns. containing polysiloxanes in hair coloring compns.)

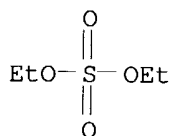
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

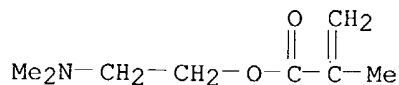
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS



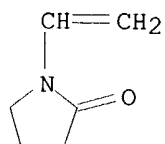
CM 3

CRN 2867-47-2  
CMF C8 H15 N O2



CM 4

CRN 88-12-0  
CMF C6 H9 N O



L11 ANSWER 12 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:314735 HCAPLUS  
DN 136:330295  
TI Hair conditioners containing short-chained carboxylic acids that increase the stability of dyes  
IN Kleen, Astrid; Hoeffkes, Horst; Moeller, Hinrich; Howorka, Wilfried  
PA Henkel Kommanditgesellschaft auf Aktien, Germany  
SO PCT Int. Appl., 68 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002032386	A2	20020425	WO 2001-EP11699	20011010
	WO 2002032386	A3	20021107		
	W: AU, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10051773	A1	20020425	DE 2000-10051773	20001019
	AU 2002020612	A5	20020429	AU 2002-20612	20011010
	EP 1326579	A2	20030716	EP 2001-987660	20011010
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
PRAI	DE 2000-10051773	A	20001019		
	WO 2001-EP11699	W	20011010		

AB According to the invention, short-chained carboxylic acids can be used to significantly increase the color stability of dyed fibers, especially keratinous fibers. The short-chained carboxylic acids are used as hair conditioners in combination with polymers, surfactants, dyes, sunscreens, protein hydrolyzates and fats. Thus a hair rinsing **composition** contained (weight/weight%): Eumulgin B2 0.3; cetyl/stearyl alc. 0.5; iso-Pr myristate 0.5;

Lamesoft PO 65 2.0; Dehyquart A-CA 1.0; Salcacare SC 96 1.0; citric acid 0.4; Gluadin WQ 2.0; pyridoxine 1.0; tartaric acid 0.7; Phenopip 0.8; water to 100.

IC ICM A61K007-13  
ICS A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

ST carboxylate short chain hair conditioner dye fastness

IT Onium compounds  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(4,5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl) imidazolium, Me sulfates; hair conditioners containing short-chained carboxylic acids that increase stability of dyes)

IT Hair preparations  
(conditioners; hair conditioners containing short-chained carboxylic acids that increase stability of dyes)

IT Dyes  
(direct; hair conditioners containing short-chained carboxylic acids that increase stability of dyes)

IT Hair preparations  
(**dyes, oxidative**; hair conditioners containing short-chained carboxylic acids that increase stability of dyes)

IT Shampoos  
Sunscreens  
Surfactants  
(hair conditioners containing short-chained carboxylic acids that increase stability of dyes)

IT Carboxylic acids, biological studies  
Fats and Glyceridic oils, biological studies  
Paraffin oils  
Polymers, biological studies  
Protein hydrolyzates  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair conditioners containing short-chained carboxylic acids that increase stability of dyes)

IT 50-21-5, Lactic acid, biological studies 56-84-8, Asparagic acid, biological studies 56-86-0, Glutamic acid, biological studies 64-19-7, Acetic acid, biological studies 69-72-7, Salicylic acid, biological studies 75-98-9, Pivalic acid 77-92-9, Citric acid, biological studies 87-69-4, Tartaric acid, biological studies 109-52-4, Valeric acid, biological studies 111-20-6, Sebacic acid, biological studies 112-02-7, Dehyquart A-CA 144-62-7, Oxalic acid, biological studies 298-12-4, Glyoxylic acid 473-81-4, Glyceric acid 498-23-7, Citraconic acid 6915-15-7, Malic acid 26161-33-1 52467-63-7, Arquad 316 55008-57-6, Gafquat 755N 86893-19-8, Glucamate DOE 120 148093-12-3, Sepigel 305 155808-76-7, Euperlan PK 3000 188571-05-3, Gluadin WQ 202833-50-9, Lamesoft PO 65 371165-87-6, Promois Milk Q 473664-54-9, Salcare SC 96  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair** conditioners containing short-chained carboxylic acids that increase stability of dyes)

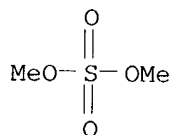
IT 55008-57-6, Gafquat 755N  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair** conditioners containing short-chained carboxylic acids that increase stability of dyes)

RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1  
CMF C2 H6 O4 S

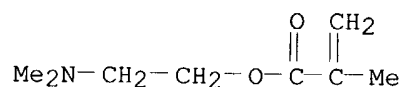


CM 2

CRN 30581-59-0  
CMF (C8 H15 N O2 . C6 H9 N O)x  
CCI PMS

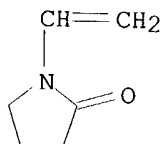
CM 3

CRN 2867-47-2  
CMF C8 H15 N O2



CM 4

CRN 88-12-0  
CMF C6 H9 N O



L11 ANSWER 13 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:314734 HCAPLUS  
DN 136:330294  
TI Hair conditioners containing short-chained carboxylic acids  
IN Kleen, Astrid; Hoeffkes, Horst; Hollenberg, Detlef; Brabaender, Oliver;  
Naumann, Frank  
PA Henkel Kommanditgesellschaft auf Aktien, Germany  
SO PCT Int. Appl., 77 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

PI	WO 2002032383	A2	20020425	WO 2001-EP11698	20011010
	WO 2002032383	A3	20021010		
	W: AU, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10051774	A1	20020425	DE 2000-10051774	20001019
	AU 2002015935	A5	20020429	AU 2002-15935	20011010
	EP 1326577	A2	20030716	EP 2001-987658	20011010
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
PRAI	DE 2000-10051774	A	20001019		
	WO 2001-EP11698	W	20011010		
AB	According to the invention, short-chained carboxylic acids are used to significantly optimize the restructuring of fibers, especially keratinous fibers. The short-chained carboxylic acids are used in hair conditioners combined with polymers, surfactants, dyes, sunscreens, protein hydrolyzates and fats. Thus a hair rinsing <b>composition</b> contained (weight/weight%): Eumulgin B2 0.3; cetyl/stearyl alc. 0.5; iso-Pr myristate 0.5;				
	Lamesoft PO 65 2.0; Dehyquart A-CA 1.0; Salcacare SC 96 1.0; citric acid 0.4; Gluadin WQ 2.0; pyridoxine 1.0; tartaric acid 0.7; Phenopip 0.8; water to 100.				
IC	ICM A61K007-06				
	ICS A61K007-13				
CC	62-3 (Essential Oils and Cosmetics)				
ST	carboxylate short chain hair conditioner				
IT	Onium compounds				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)				
	(4,5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl) imidazolium, Me sulfates; hair conditioners containing short-chained carboxylic acids)				
IT	Hair preparations				
	(conditioners; hair conditioners containing short-chained carboxylic acids)				
IT	Dyes				
	(direct; hair conditioners containing short-chained carboxylic acids)				
IT	Hair preparations				
	(dyes, oxidative; hair conditioners containing short-chained carboxylic acids)				
IT	Molecular weight				
	Shampoos				
	Sunscreens				
	Surfactants				
	(hair conditioners containing short-chained carboxylic acids)				
IT	Carboxylic acids, biological studies				
	Fats and Glyceridic oils, biological studies				
	Paraffin oils				
	Polymers, biological studies				
	Protein hydrolyzates				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)				
	(hair conditioners containing short-chained carboxylic acids)				
IT	50-21-5, Lactic acid, biological studies 56-84-8, Asparagic acid, biological studies 56-86-0, Glutamic acid, biological studies 64-19-7, Acetic acid, biological studies 69-72-7, Salicylic acid, biological studies 75-98-9, Pivalic acid 77-92-9, Citric acid, biological studies 87-69-4, Tartaric acid, biological studies 109-52-4, Valeric acid, biological studies 111-20-6, Sebacic acid, biological studies 112-02-7, Dehyquart A-CA 144-62-7, Oxalic acid, biological studies 298-12-4, Glyoxylic acid 473-81-4, Glyceric acid 498-23-7, Citraconic				

acid 6915-15-7, Malic acid 26161-33-1 52467-63-7, Arquad 316  
**55008-57-6**, Gafquat 755N 86893-19-8, Glucamate DOE 120  
 145686-74-4, Dow Corning Q2-5220 148093-12-3, Sepigel 305 155808-76-7,  
 Euperlan PK 3000 188571-05-3, Gluadin WQ 202833-50-9, Lamesoft PO 65  
 371165-87-6, Promois Milk Q 473664-54-9, Salcare SC 96

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair conditioners containing short-chained carboxylic acids)

IT **55008-57-6**, Gafquat 755N

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair conditioners containing short-chained carboxylic acids)

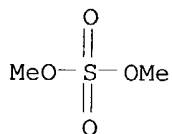
RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX  
 NAME)

CM 1

CRN 77-78-1

CMF C2 H6 O4 S



CM 2

CRN 30581-59-0

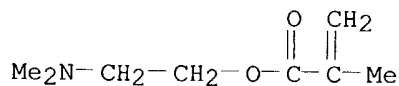
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

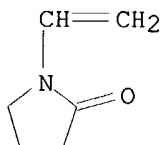
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L11 ANSWER 14 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:729697 HCAPLUS  
 DN 135:277719  
 TI Roll-on applicator containing a hair-treating **composition**  
 IN Jourdan, Herve; Pasquet, Dorothee  
 PA L'oreal, Fr.  
 SO Eur. Pat. Appl., 32 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA French  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1138315	A1	20011004	EP 2001-400555	20010302
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	FR 2806274	A1	20010921	FR 2000-3251	20000314
	FR 2806274	B1	20020920		
	AU 761264	B2	20030529	AU 2001-23121	20010220
	JP 2001294517	A2	20011023	JP 2001-70774	20010313
	CN 1336151	A	20020220	CN 2001-117316	20010313
	RU 2217536	C2	20031127	RU 2001-106946	20010313
	BR 2001001175	A	20011030	BR 2001-1175	20010314
	US 2003012758	A1	20030116	US 2001-805060	20010314
	US 6635262	B2	20031021		
PRAI	FR 2000-3251	A	20000314		
AB	A roll-on applicator containing a hair-treating <b>composition</b> is disclosed. The <b>composition</b> comprises carboxylic surfactants, fixative polymers, and dyes. A hair preparation contained Synthalen K 0.5, 3% Aristoflex A, Mirasil DMCO 0.1, perfume 0.3, ethanol 40, AMP q.s. pH = 7.6, and water q.s. 100 %.				
IC	ICM A61K007-06 ICS A45D034-04				
CC	62-3 (Essential Oils and Cosmetics)				
ST	roll on applicator hair fixative polymer				
IT	Polyurethanes, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (acrylates; roll-on applicator containing hair-treating <b>composition</b> )				
IT	Polyelectrolytes (amphoteric; roll-on applicator containing hair-treating <b>composition</b> )				
IT	Polyelectrolytes (anionic; roll-on applicator containing hair-treating <b>composition</b> )				
IT	Polyelectrolytes Surfactants (cationic; roll-on applicator containing hair-treating <b>composition</b> )				
IT	Polysaccharides, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (cationic; roll-on applicator containing hair-treating <b>composition</b> )				
IT	Polysiloxanes, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated; roll-on applicator containing hair-treating <b>composition</b> )				
IT	Polysiloxanes, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES				

(Uses)  
(di-Me, ethoxylated propoxylated; roll-on applicator containing hair-treating **composition**)

IT **Alcohols**, biological studies  
Amines, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(fatty; roll-on applicator containing hair-treating **compn** .)

IT Polyamines  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(polyethylene-, N-acyl; roll-on applicator containing hair-treating **composition**)

IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(polyhydric; roll-on applicator containing hair-treating **composition**)

IT Hair preparations  
Perfumes  
Pigments, nonbiological  
Preservatives  
Sunscreens  
Surfactants  
(roll-on applicator containing hair-treating **composition**)

IT Acrylic polymers, biological studies  
Ceramides  
Fatty acids, biological studies  
Glycols, biological studies  
Paraffin oils  
Polyamides, biological studies  
Polymers, biological studies  
Polyolefins  
Polysiloxanes, biological studies  
Proteins, general, biological studies  
Vitamins  
Waxes  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(roll-on applicator containing hair-treating **composition**)

IT Fats and Glyceridic oils, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(vegetable; roll-on applicator containing hair-treating **composition**)

IT 112-02-7, Arquad 16-25LO  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Arquad 16-25LO; roll-on applicator containing hair-treating **compn** .)

IT 92183-41-0, Celquat LOR  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Celquat LOR; roll-on applicator containing hair-treating **composition**)

IT 16841-14-8, Behenalkonium chloride  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Genamin KDB; roll-on applicator containing hair-treating **composition**)

IT 25212-88-8, Luvimer MAE  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

IT 56-81-5, Glycerin, biological studies 79-10-7D, Acrylic acid, esters, polymers with vinyl acetate 107-13-1D, Acrylonitrile, polymers 108-05-4D, Vinylacetate, polymers with acrylic esters 110-16-7D, Maleic acid, esters, polymer swith vinyl acetate 2116-84-9, dow corning 556 9003-18-3D, Acrylonitrile butadiene copolymer, polymers 9003-20-7, vinyl acetate homopolymer 9003-29-6, polybutene 9004-34-6D, Cellulose, esters, biological studies 9004-62-0D, Hydroxyethyl cellulose, quaternary ammonium salts 9006-26-2, Ethylene maleic anhydride copolymer 24937-78-8, Ethylene vinyl acetate copolymer 26062-56-6, Ultrahold strong 26062-79-3, Diallyldimethylammonium chloride homopolymer 26590-05-6, Acrylamide Diallyldimethylammonium chloride copolymer 28791-69-7 29297-55-0, Vinylpyrrolidone vinylimidazole copolymer 34354-88-6 37309-58-3, polydecene 39421-75-5, jaguar hp 105 42557-10-8, dow corning 200 53633-54-8, gafquat 734 54422-45-6 54482-09-6 68134-63-4, Aristoflex a 76050-42-5, Synthalen k 96673-02-8 110483-07-3 129426-19-3 149591-38-8 150177-00-7 160065-31-6 163063-14-7, aculyn 22 195739-91-4, Carbopol Ultrez 10 203341-07-5, dow corning 939 206052-70-2 264189-48-2, Solanace RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(roll-on applicator containing hair-treating composition)

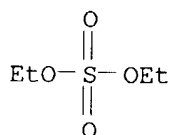
IT 53633-54-8, gafquat 734  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(roll-on applicator containing hair-treating composition)

RN 53633-54-8 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5  
CMF C4 H10 O4 S



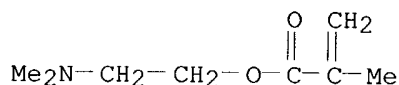
CM 2

CRN 30581-59-0  
CMF (C8 H15 N O2 . C6 H9 N O)x  
CCI PMS

CM 3

CRN 2867-47-2  
CMF C8 H15 N O2

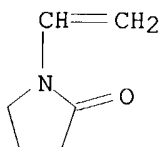




CM 4

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:593050 HCAPLUS

DN 133:198389

TI Hair styling oil

PA Wella A.-G., Germany

SO Ger. Gebrauchsmusterschrift, 23 pp.

CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20005808	U1	20000824	DE 2000-20005808	20000329
	EP 1055407	A2	20001129	EP 2000-106667	20000329
	EP 1055407	A3	20031008		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2000344637	A2	20001212	JP 2000-152326	20000524
	US 6368581	B1	20020409	US 2000-577535	20000524
	BR 2000002513	A	20010102	BR 2000-2513	20000529
PRAI	DE 1999-19924705	A1	19990528		

OS MARPAT 133:198389

AB A hair conditioner with the rheol. characteristics of an oil, consisting essentially of nonhydrophobic components, contains  $\geq 1$  fatty acid (partial) glyceride polyalkylene glycol ether with  $\geq 30$  alkylene glycol units,  $\geq 1$  addnl. surfactant, and  $\geq 1$  thickener. These components are present in amts. which do not cause foaming of the **composition** before or during use. The **composition** is easily worked into the hair, improves the stylability and luster of the hair, and is easily washed out. A suitable **composition** contained hydrogenated PEG-200 glyceryl palmitate 0.75, PEG-7 glyceryl cocoate 0.25, PEG-40 hydrogenated castor oil 9.0, hydroxyethylcellulose 0.50, aminomethylpropanol 0.01, and H<sub>2</sub>O to 100 g.

IC ICM A61K007-06

ICS A61K007-075; A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

ST hair styling conditioner alkoxyated glyceride; oil hair styling  
ethoxyated glyceride

IT Glycerides, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(alkoxyated; hair styling oil)

IT Glycosides  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(alkyl polyglycosides; hair styling oil)

IT Polyelectrolytes  
(anionic, thickeners; hair styling oil)

IT Monoglycerides  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(coco, coco diglycerides and, ethoxyated; hair styling oil)

IT Diglycerides  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(coco, coco monoglycerides and, ethoxyated; hair styling oil)

IT Hair preparations  
(conditioners, styling; hair styling oil)

IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(ethers with glycerides; hair styling oil)

IT Fatty acids, biological studies  
Glycerides, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(ethoxyated; hair styling oil)

IT **Alcohols**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**fatty**, ethoxyated; hair styling oil)

IT Surfactants  
Thickening agents  
(hair styling oil)

IT Castor oil  
Tallow  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hydrogenated, ethoxyated; hair styling oil)

IT Surfactants  
(nonionic; hair styling oil)

IT Polyoxyalkylenes, biological studies  
Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyamide-; hair styling oil)

IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyhydric, ethoxyated, esters with fatty acids; hair styling oil)

IT Polyamides, biological studies  
Polyamides, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyoxyalkylene-; hair styling oil)

IT Polymers, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (thickeners; hair styling oil)

IT 9000-30-0, Guar gum 9002-92-0, Laureth 9003-39-8, PVP 9004-34-6,  
 Cellulose, biological studies 9004-67-5, Methylcellulose 9004-96-0  
 9004-98-2, Oleth 9005-64-5, Polysorbate 20 9005-66-7, Polysorbate 40  
 9012-76-4, Chitosan 11138-66-2, Xanthan gum 25035-26-1, Luviset CA 66  
 25322-68-3D, PEG, ethers with glycerides 25322-69-4D, Polypropylene  
 glycol, ethers with glycerides 31694-55-0D, triesters with fatty acids  
**55008-57-6**, Gafquat 755N 58846-77-8, Decyl glucoside  
 67016-70-0, Amphomer 86893-19-8 138757-67-2, Carbopol 980  
 157351-77-4, Rewoderm LIS 80 176429-87-1, Carbopol ETD 2020  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hair styling oil)

IT 9004-62-0, Hydroxyethylcellulose  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (thickener; hair styling oil)

IT **55008-57-6**, Gafquat 755N  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hair styling oil)

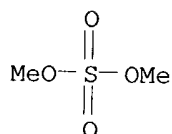
RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX  
 NAME)

CM 1

CRN 77-78-1

CMF C2 H6 O4 S



CM 2

CRN 30581-59-0

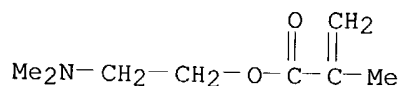
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

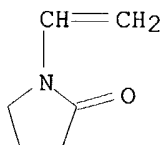
CM 3

CRN 2867-47-2

CMF C8 H15 N O2



CM 4

CRN 88-12-0  
CMF C6 H9 N O

L11 ANSWER 16 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:116864 HCAPLUS  
 DN 132:156519  
 TI Method for improving the fade resistance of hair and related  
**compositions**  
 IN Bhambhani, Malti V.; Chan, Alexander; Hawkins, Geoffrey R.  
 PA Revlon Consumer Products Corp., USA  
 SO PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000007550	A1	20000217	WO 1999-US17612	19990804
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6143286	A	20001107	US 1998-129922	19980805
	AU 9952534	A1	20000228	AU 1999-52534	19990804
PRAI	US 1998-129922	A	19980805		
	WO 1999-US17612	W	19990804		

OS MARPAT 132:156519

AB Hair conditioning compns. comprising 0.1-20 % cationic conditioning agent, 0.1-30 % **fatty alc.**, 0.001-10 % nonionic surfactant, 0.001-20 % of a polysiloxane having D and T units, wherein the ratio of D units to T units in the polysiloxane is about 10 to 80 D units for every T unit; and 5-95 % water; as well as a method for improving the fade resistance of color treated hair comprising applying to the hair an aqueous based hair care **composition** containing one or more hair treating active ingredients and a siloxane having D and T units, wherein the ratio of D units to T units in the siloxane is about 10 to 80 D units for every T unit.

IC ICM A61K007-00

ICS A61K007-06; A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

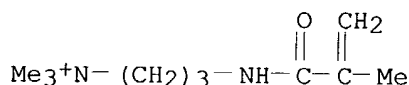
ST hair conditioner fade resistance polysiloxane

- IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(C16-18, ethoxylated; method for improving the fade resistance of hair)
- IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
([(aminoethyl)amino]propyl hydroxy, di-Me; method for improving the  
fade resistance of hair)
- IT Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(coco alkylbis(polyoxyethylene)methyl, chlorides; method for improving  
the fade resistance of hair)
- IT Hair preparations  
(conditioners; method for improving the fade resistance of hair)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen polysiloxane-; method for improving the fade  
resistance of hair)
- IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-; method for improving the fade  
resistance of hair)
- IT Hair preparations  
(dyes; method for improving the fade resistance of hair)
- IT **Alcohols**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**fatty**; method for improving the fade resistance of hair)
- IT Surfactants  
(method for improving the fade resistance of hair)
- IT Polysiloxanes, biological studies  
Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(method for improving the fade resistance of hair)
- IT Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(trimethyltallow alkylammonium chlorides; method for improving the fade  
resistance of hair)
- IT 112-92-5, Stearyl alcohol 9036-19-5, Octoxynol-40 17301-53-0,  
Behentrimonium chloride 20182-63-2, Stearamidopropyldimethylamine  
26027-38-3, Nonoxynol-10 36574-66-0D, N-coco acyl derivs. 36653-82-4,  
Cetyl alcohol 81859-24-7, Polyquaternium-10 **131954-48-8**,  
Polyquaternium-28 143714-92-5  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(method for improving the fade resistance of **hair**)
- IT **131954-48-8**, Polyquaternium-28  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(method for improving the fade resistance of **hair**)
- RN 131954-48-8 HCAPLUS
- CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-,  
chloride, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 51410-72-1

CMF C10 H21 N2 O . Cl

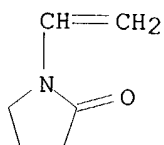


● Cl<sup>-</sup>

CM 2

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 17 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:686550 HCAPLUS

DN 131:303230

TI Customization of hair care formulations

IN Rath, Maureen L.; Hlavac, Wallace R.

PA Tiro Industries Incorporated, USA

SO U.S., 13 pp., Cont. of U.S. Ser. No. 969,492.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5972322	A	19991026	US 1999-304246	19990503
	US 5993792	A	19991130	US 1997-969492	19971113
PRAI	US 1997-969492	A1	19971113		

AB The invention provides a system for preparing a hair shampoo, conditioner, and styling **composition**, wherein each system is composed of sep. components that can be combined as desired by the user to provide customized hair care formulations. The systems include a water-thin base **composition**, a thickening **composition**, and optional enhancing additives, wherein each **composition** is sep. packaged. The viscosity of the end-product shampoo, conditioner, or styling **composition** can be varied, from a thick, pourable liquid to a thicker, pasty material depending on the amount of thickener that is added to the base. An optional

styling **composition** was prepared by combining the ingredients shown below. The product contained deionized water 75.0, Germaben II 1.0, 20% aqueous solution of Gafquat 755N 8.0, and 50% aqueous solution of PVP/VA W-35

16.0%.

IC ICM A61K007-075  
ICS A61K007-06  
NCL 424070110  
CC 62-3 (Essential Oils and Cosmetics)  
ST hair formulation thickener vitamin additive  
IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(C16-18, ethoxylated; customization of hair care formulations)  
IT Skin preparations (pharmaceutical)  
(astringents; customization of hair care formulations)  
IT Hair preparations  
(conditioners; customization of hair care formulations)  
IT Antibacterial agents  
Antioxidants  
Dyes  
Hair preparations  
Sequestering agents  
Shampoos  
Solubilizers  
Thickening agents  
Viscosity  
(customization of hair care formulations)  
IT Chelates  
Quaternary ammonium compounds, biological studies  
Vitamins  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(customization of hair care formulations)  
IT Aloe barbadensis  
Basil  
Birch (Betula)  
Cola (plant)  
Cucumber (Cucumis sativus)  
Lavender (Lavandula)  
Marigold  
Matricaria  
Peppermint (Mentha piperita)  
Sunflower  
Witch hazel  
(exts. of; customization of hair care formulations)  
IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(fatty ethers; customization of hair care formulations)  
IT **Alcohols**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**fatty**, ethoxylated, C12-18; customization of hair care formulations)  
IT Cosmetics  
(moisturizers; customization of hair care formulations)  
IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

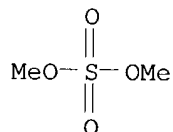
(polyhydric; customization of hair care formulations)  
 IT 58-95-7, Tocopheryl acetate 67-97-0, Cholecalciferol 79-81-2, Retinyl palmitate 112-02-7, Carsoquat CT 429 112-03-8, Stearyltrimethylammonium chloride 1812-53-9, Varisoft 432PG 5306-85-4, Dimethyl isosorbide 9002-92-0, Laureth-23 9004-99-3D, C16-18- and iso-C16-18-alkyl ethers 24938-91-8, Salcare-SC95 26161-33-1 26590-05-6, Merquat 550 35429-19-7, Salcare-SC92 **55008-57-6**, Gafquat 755N 69364-63-2, Isoceteth 20 148093-12-3, Sepigel 305 155076-61-2, Salcare-SC91 162534-65-8, Celquat SC-240 190606-03-2, Sepigel 501  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(customization of **hair** care formulations)  
 IT **55008-57-6**, Gafquat 755N  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(customization of **hair** care formulations)  
 RN 55008-57-6 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1  
 CMF C2 H6 O4 S

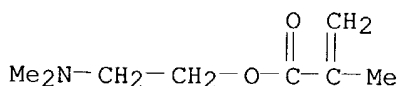


CM 2

CRN 30581-59-0  
 CMF (C8 H15 N O2 . C6 H9 N O)x  
 CCI PMS

CM 3

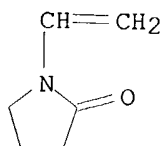
CRN 2867-47-2  
 CMF C8 H15 N O2



CM 4

CRN 88-12-0  
 CMF C6 H9 N O





RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 18 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1999:244543 HCAPLUS  
DN 130:301478  
TI **Oxidative hair dye compositions** containing  
**oxidoreductase**-type enzymes and polymers  
IN De La Mettrie, Roland; Cotteret, Jean; De Labrey, Arnaud; Maubru, Mireille  
PA L'Oreal, Fr.  
SO PCT Int. Appl., 33 pp.  
CODEN: PIXXD2  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9917727	A1	19990415	WO 1998-FR2026	19980922
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2769217	A1	19990409	FR 1997-12357	19971003
	FR 2769217	B1	20000317		
	CA 2272457	AA	19990415	CA 1998-2272457	19980922
	AU 9892695	A1	19990427	AU 1998-92695	19980922
	AU 719804	B2	20000518		
	BR 9806261	A	20000125	BR 1998-6261	19980922
	EP 975318	A1	20000202	EP 1998-945350	19980922
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000507983	T2	20000627	JP 1999-521107	19980922
	RU 2176908	C2	20011220	RU 1999-114781	19980922
	ZA 9809001	A	19990412	ZA 1998-9001	19981002
	US 6251145	B1	20010626	US 1999-319199	19990602
	US 2002004959	A1	20020117	US 2001-832878	20010412
PRAI	FR 1997-12357	A	19971003		
	WO 1998-FR2026	W	19980922		
	US 1999-319199	A3	19990602		
AB	A cosmetic and/or dermatol. <b>composition</b> for treating keratin fibers, in particular human keratin fibers and more particularly human hair comprise in an appropriate support for keratin fibers: (a) at least an oxidoreductase-type enzyme with 2 electrons in the presence of at least a donor for said enzyme; and (b) at least a substantive polymer selected in the group consisting of: (i) cellulosic cationic derivs.; (ii) dimethyldiallylammonium halide homopolymers and dimethyldiallylammonium copolymers and (meth)acrylic acid; (iii) methacryloyloxyethyltrimethylammo				

nium halide homopolymers and copolymers; (iv) quaternary polyammonium polymers; (v) vinylpyrrolidone polymers with cationic structural units; and (vi) their mixts. The invention also concerns the methods for treating keratin fibers in particular methods for dyeing, permanently setting or bleaching hair using said **composition**. A hair dye **composition** contained uricase (20 IU/mg) 1.5, uric acid 1.5, p-phenylenediamine 0.324, resorcin 0.33, Merquat 280 (acrylic acid-dimethyldiallylammonium chloride copolymer) 1.0, and water q.s. 100 g.

- IC ICM A61K007-13
- CC 62-3 (Essential Oils and Cosmetics)
- ST **oxidative** hair **dye oxidoreductase** enzyme polymer
- IT Surfactants
  - (amphoteric; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Surfactants
  - (anionic; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Surfactants
  - (cationic; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Surfactants
  - (nonionic; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Solvents
  - (organic; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Antioxidants
- Coupling agents
- Opacifiers
- Oxidizing** agents
- Perfumes
- Permeation enhancers
- Preservatives
- Sequestering agents
- Thickening agents
  - (**oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Enzymes, biological studies
- Paraffin oils
- Polymers, biological studies
- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (**oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Hair preparations
  - (permanent wave; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Quaternary ammonium compounds, biological studies
- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (polymers; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT Surfactants
  - (zwitterionic; **oxidative** hair **dye** compns. containing **oxidoreductase**-type enzymes and polymers)
- IT 69-93-2, Uric acid, biological studies 106-50-3, 1,4-Benzenediamine, biological studies 108-45-2, 1,3-Benzenediamine, biological studies

108-46-3, 1,3-Benzenediol, biological studies 591-27-5 9002-12-4,  
 Uricase 9004-34-6D, Cellulose, alkyl ether derivs., biological studies  
 9015-06-9 9055-15-6, **Oxidoreductase** 26062-79-3, Merquat 100  
 26161-33-1 **30581-59-0**, Dimethylaminoethyl methacrylate-  
 vinylpyrrolidone copolymer 35429-19-7 53694-17-0, Merquat 280  
 68393-49-7 95144-24-4 **131954-48-8** 197179-33-2, Oramix cg110  
 223104-80-1

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(oxidative hair dye compns. containing  
**oxidoreductase**-type enzymes and polymers)

IT **30581-59-0**, Dimethylaminoethyl methacrylate-vinylpyrrolidone  
 copolymer **131954-48-8**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(oxidative hair dye compns. containing  
**oxidoreductase**-type enzymes and polymers)

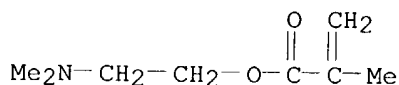
RN 30581-59-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

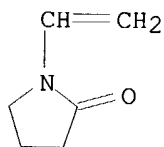
CMF C8 H15 N O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



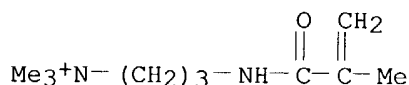
RN 131954-48-8 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-,  
 chloride, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 51410-72-1

CMF C10 H21 N2 O . Cl

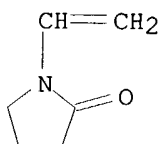


● Cl<sup>-</sup>

CM 2

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:785561 HCAPLUS

DN 130:43113

TI Scented hair gel having particulate matter in the form of glitter with predetermined shapes

IN Klar, Cindi

PA Townley Jewelry Inc., USA

SO U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 820,759.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5843415	A	19981201	US 1997-857785	19970516
	US 5853706	A	19981229	US 1997-820759	19970319
PRAI	US 1997-820759		19970319		

AB A hair gel **composition** having glitter contained therein comprising a surface active hair treatment system for moisturizing, conditioning, and lubricating the hair and scalp, and for holding stylized hair in place, in the range of 7.5% to 10.0% by weight of the hair gel **composition**; at least one pH adjuster being in the range of 0.5% to 2.0% by weight of the hair gel **composition**; a preservative system for preserving the hair gel **composition** against microbial contamination being in the range of 0.40% to 2.4% by weight of the hair gel **composition**; at least one anti-oxidant and light stabilizer for preventing oxidation of the hair gel **composition** being in the range of 0.02% to 0.3% by weight of the hair gel **composition**; a diluent in the form of water in the range of 80.0% to 95.0% by weight of the hair gel **composition**; and suspended particulate matter having a plurality of predetd. glitter shapes for aesthetic ornamentation of the hair being in the range of 2.0% to 5.0% by weight of the

hair gel **composition** An unscented clear glitter hair gel comprises water 80.00-95.00, polyester glitter 2.00-5.00, propylene glycol 1.00-2.00, Carbomer 940 0.50-2.00, PVP 0.50-2.00, triethanolamine 0.50-2.00, imidazolidinylurea 0.20-1.00, methylparaben 0.20-1.00, di-Na EDTA 0.10-0.75, propylparaben 0.02-0.40, and benzophenone-4 0.02-0.30.

IC ICM A61K007-06

NCL 424070100

CC 62-3 (Essential Oils and Cosmetics)

ST hair gel particulate glitter

IT Collagens, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(amino acids; scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT Amino acids, biological studies

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(collagen; scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT Natural products, pharmaceutical

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(exts.; scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT Hair preparations

(gels; scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT Aloe barbadensis

Antioxidants

Pigments, nonbiological

Sunscreens

(scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT Bentonite, biological studies

Lanolin

Paraffin oils

Petrolatum

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT 3844-45-9, FD&C Blue Number 1

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(FD&C Blue Number 1; scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT 8004-92-0, FD&C Yellow Number 10

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(FD&C Yellow Number 10; scented hair gel having particulate matter in the form of glitter with predetd. shapes)

IT 56-40-6, Glycine, biological studies 77-86-1, Tromethamine 111-42-2, Diethanolamine, biological studies 141-43-5, Ethanolamine, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(buffer; scented hair gel having particulate matter in the form of glitter with predetd. shapes)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1998:635635 HCAPLUS  
DN 129:280773  
TI **Oxidative hair dye compositions** containing  
2-hydroxyphenyl benzotriazole derivatives and surfactants  
IN Hawkins, Geoffrey R.; Dolak, Terence M.; Gutkowski, Glenn A.  
PA Revlon Consumer Products Corp., USA  
SO PCT Int. Appl., 49 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9841186	A1	19980924	WO 1998-US5207	19980317
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5843193	A	19981201	US 1997-819809	19970318
CA 2255715	AA	19980924	CA 1998-2255715	19980317
AU 9865613	A1	19981012	AU 1998-65613	19980317
AU 725070	B2	20001005		
EP 910330	A1	19990428	EP 1998-911725	19980317
EP 910330	B1	20031022		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, IE, FI				
BR 9804784	A	19990817	BR 1998-4784	19980317
NZ 332989	A	20000327	NZ 1998-332989	19980317
JP 2001505923	T2	20010508	JP 1998-540717	19980317
AT 252361	E	20031115	AT 1998-911725	19980317
ES 2206904	T3	20040516	ES 1998-911725	19980317
ZA 9802287	A	19980923	ZA 1998-2287	19980318
TW 513313	B	20021211	TW 1998-87104020	19980318
NO 9805354	A	19990118	NO 1998-5354	19981117
KR 2000011141	A	20000225	KR 1998-709301	19981118
PRAI US 1997-819809	A	19970318		
WO 1998-US5207	W	19980317		

OS MARPAT 129:280773

AB A **composition** for **oxidative dyeing** of hair comprises, by weight of the total **composition**; 0.0001-20 % of at least one primary intermediate and at least one coupler for the formation of **oxidation dyes**, 0.01-10 % of a 2-hydroxyphenyl benzotriazole compound which absorbs UV radiation in the wavelength range of 200 to 400 nm, 0.5-20 % surfactant, and 10-65 % water. A two component kit containing the hair dye **composition** and a developer, and a method for **oxidative dyeing** of hair with said kit is also disclosed. A hair dye **composition** contained ammonium lauryl sulfate 2.00, propylene glycol 4.00, ethoxydiglycol 2.00, monoethanolamine 5.00, seaweed extract 0.80, EDTA 0.80, isoascorbic acid 0.20, sodium sulfite 0.50, primary intermediates and couplers 5.00, oleic acid 12.50, cetearyl alc. 4.00, emulsifying wax 2.00, oleth-20 1.00, steareth-21 0.70, meadowfoam seed oil 0.75, oleyl alc. 0.40, Polyquaternium-10 0.20, Polyquaternium-28 0.50, mica/titanium dioxide 0.30, hydrolyzed wheat protein 1.00, Cibafast

W liquid 1.00, fragrance 5.00, wheat amino acids 1.00, and water q.s. 100%.

IC ICM A61K007-06  
ICS A61K007-13; A61K007-42

CC 62-4 (Essential Oils and Cosmetics)

ST **oxidative** hair **dye** benzotriazole deriv surfactant

IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(C16-18, ethoxylated; **oxidative** hair **dye** compns.  
containing hydroxyphenyl benzotriazole derivs. and surfactants)

IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(C16-18; **oxidative** hair **dye** compns. containing  
hydroxyphenyl benzotriazole derivs. and surfactants)

IT Fats and Glyceridic oils, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(Limnanthes alba seed; **oxidative** hair **dye** compns.  
containing hydroxyphenyl benzotriazole derivs. and surfactants)

IT Surfactants  
(amphoteric; **oxidative** hair **dye** compns. containing  
hydroxyphenyl benzotriazole derivs. and surfactants)

IT Hair preparations  
(conditioners; **oxidative** hair **dye** compns. containing  
hydroxyphenyl benzotriazole derivs. and surfactants)

IT Cyclosiloxanes  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me; **oxidative** hair **dye** compns. containing  
hydroxyphenyl benzotriazole derivs. and surfactants)

IT Hair preparations  
(**dyes**, **oxidative**; **oxidative** hair  
**dye** compns. containing hydroxyphenyl benzotriazole derivs. and  
surfactants)

IT Surfactants  
(nonionic; **oxidative** hair **dye** compns. containing  
hydroxyphenyl benzotriazole derivs. and surfactants)

IT Surfactants  
(**oxidative** hair **dye** compns. containing hydroxyphenyl  
benzotriazole derivs. and surfactants)

IT Polysiloxanes, biological studies  
Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**oxidative** hair **dye** compns. containing hydroxyphenyl  
benzotriazole derivs. and surfactants)

IT Surfactants  
(zwitterionic; **oxidative** hair **dye** compns. containing  
hydroxyphenyl benzotriazole derivs. and surfactants)

IT 2235-54-3, Ammonium lauryl sulfate 7722-84-1, Hydrogen peroxide,  
biological studies 9003-39-8, Poly(vinylpyrrolidone) 9004-34-6D,  
Cellulose, ethers, biological studies 9004-98-2, Oleth-20 25751-21-7,  
Acrylic acid-methacrylic acid copolymer 26062-79-3,  
Poly(dimethyldiallylammonium chloride) 26590-05-6, Acrylamide-  
dimethyldiallylammonium chloride copolymer 56275-01-5 81859-24-7,  
Polyquaternium-10 92484-48-5, Cibafast W **131954-48-8**,  
Polyquaternium-28 157956-72-4D, trimethylsilyl-terminated  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES





PI JP 07267832 A2 19951017 JP 1994-82384 19940328  
 JP 2875474 B2 19990331  
 PRAI JP 1994-82384 19940328

AB Hair-dyeing compns. contain N,N-bis(2-hydroxyethyl)-p-phenylenediamine (I) or its salts and cationized polymers. The compns. show good viscosity stability and dye hair uniformly. A **composition** containing I sulfate salt 3.0, Merquat 100 1.0, p-aminophenol 0.5, resorcin 0.1, p-amino-o-cresol 0.2, 2-nitro-p-phenylenediamine 0.3, Na lauryl sulfate 2.0, stearyl alc. 10.0, polyoxyethylene stearyl ether 10.0, EDTA-2Na 0.1, NH3, and H2O to 100 weight% was mixed with oxidizing agents containing H2O2, EDTA, cetanol, Na lauryl sulfate, and phenacetin and used for hair dyeing.

IC ICM A61K007-13  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST hair dye hydroxyethylphenylenediamine cationic polymer  
 IT Polymers, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (cationized; hair dyes containing bis(hydroxyethyl)phenylenediamine and cationized polymers)

IT Hydrocarbons, biological studies  
 Paraffin oils  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hair dyes containing bis(hydroxyethyl)phenylenediamine, cationized polymers, benzene derivs., and higher alcs. and/or hydrocarbons)

IT Alcohols, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (C16-18, hair dyes containing bis(hydroxyethyl)phenylenediamine, cationized polymers, benzene derivs., and higher alcs. and/or hydrocarbons)

IT Hair preparations  
 (dyes, hair dyes containing bis(hydroxyethyl)phenylenediamine and cationized polymers)

IT **Alcohols**, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (**fatty**, hair dyes containing bis(hydroxyethyl)phenylenediamine, cationized polymers, benzene derivs., and higher alcs. and/or hydrocarbons)

IT 81859-24-7, Leogard GP  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (Leogard GP; hair dyes containing bis(hydroxyethyl)phenylenediamine and cationized polymers)

IT 7575-35-1 9005-25-8D, Starch, cationic derivs. 26062-79-3, Merquat 100 26590-05-6, Merquat 550 54381-16-7 **55008-57-6**, Gafquat 755N 65497-29-2, Jaguar C 13S 74032-76-1 81859-24-7 92183-41-0, Celquat L 200  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (**hair** dyes containing bis(hydroxyethyl)phenylenediamine and cationized polymers)

IT 96-91-3, Picramic acid 99-56-9, 4-Nitro-o-phenylenediamine 108-46-3, Resorcin, biological studies 123-30-8, p-Aminophenol 128-95-0, 1,4-Diaminoanthraquinone 150-75-4, p-Methylaminophenol 591-27-5 615-66-7, 2-Chloro-p-phenylenediamine 2835-96-3, p-Amino-o-cresol 4947-16-4, 1-Amino-4-methylanthraquinone 5307-14-2, 2-Nitro-p-phenylenediamine 55302-96-0, 5-(2-Hydroxyethylamino)-2-methylphenol  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

(hair dyes containing bis(hydroxyethyl)phenylenediamine, cationized polymers, and benzene derivs.)

IT 112-53-8, Lauryl alcohol 112-72-1, Myristyl alcohol 112-92-5, Stearyl alcohol 36653-82-4, Cetyl alcohol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair dyes containing bis(hydroxyethyl)phenylenediamine, cationized polymers, benzene derivs., and higher alcs. and/or hydrocarbons)

IT 55008-57-6, Gafquat 755N

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**hair** dyes containing bis(hydroxyethyl)phenylenediamine and cationized polymers)

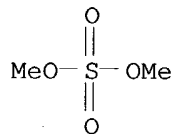
RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1

CMF C2 H6 O4 S



CM 2

CRN 30581-59-0

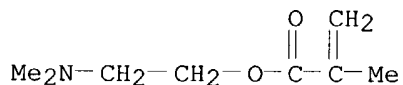
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

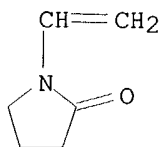
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L11 ANSWER 22 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1994:541209 HCAPLUS  
 DN 121:141209  
 TI Method and **composition** for permanent waving of the hair  
 IN Mager, Herbert; Clausen, Thomas; Hoch, Dietrich  
 PA Wella AG, Germany  
 SO Ger. Offen., 7 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4240471	A1	19940609	DE 1992-4240471	19921202
	EP 604717	A2	19940706	EP 1993-116199	19931007
	EP 604717	A3	19941214		
	R: DE, ES, FR, GB, IT				
	JP 06192052	A2	19940712	JP 1993-277799	19931008
	BR 9304897	A	19940614	BR 1993-4897	19931130
PRAI	DE 1992-4240471		19921202		
AB	A permanent wave is imparted to the hair by treating the hair with a keratin-reducing agent containing <2.5 weight% nonionic surfactant, rinsing, and treating with a fixative containing an oxidizing agent, 0.01-6 weight% cationic surfactant, and 0.01-6 weight% cationic polymer. Thus, a reducing component (pH 8.4) contained 70% aqueous ammonium thioglycolate solution 12.0, NH <sub>4</sub> HCO <sub>3</sub> 2.0, 28% aqueous NH <sub>3</sub> solution 0.8, ethoxylated castor oil 0.2, perfume oil 0.1, and water 84.9 g, and an oxidizing component (pH 2.0) contained 35% aqueous H <sub>2</sub> O <sub>2</sub> solution 7.0, 20% aqueous Gafquat 755N solution 2.0, dimethicone copolyol 0.5, 85% aqueous H <sub>3</sub> PO <sub>4</sub> solution 0.2, cetyltrimethylammonium chloride 0.1, and water 90.2 g.				
IC	ICM A61K007-09 ICS A45D007-04				
ICA	C08L033-14; C08L005-08; B01F017-42; B01F017-18; B01F017-54				
CC	62-3 (Essential Oils and Cosmetics)				
ST	hair waving <b>compr</b> surfactant cationic polymer				
IT	Quaternary ammonium compounds, biological studies				
	RL: BIOL (Biological study) (coco fatty amidopropyl dimethylacetamidyl, chlorides, hair wave-setting <b>composition</b> with oxidizing component containing)				
IT	Siloxanes and Silicones, biological studies				
	RL: BIOL (Biological study) (surfactants, hair wave-setting <b>composition</b> with oxidizing component containing)				
IT	Quaternary ammonium compounds, biological studies				
	RL: BIOL (Biological study) (bis(hydrogenated tallow alkyl) dimethyl, chlorides, hair wave-setting <b>composition</b> with oxidizing component containing)				

- IT Quaternary ammonium compounds, biological studies  
RL: BIOL (Biological study)  
(chlorides, hair wave-setting **composition** with oxidizing component containing)
- IT Amines, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(coco alkyl, ethoxylated, hair wave-setting **composition** with reducing component containing)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen siloxane-, acetate esters; hair wave-setting **composition** with oxidizing component containing)
- IT Polyoxyalkylenes, biological studies  
RL: BIOL (Biological study)  
(di-Me, Me hydrogen siloxane-, hair wave-setting **composition** with oxidizing component containing)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen siloxane-, Bu ethers, hair wave-setting **composition** with oxidizing component containing)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen siloxane-, Me ethers, hair wave-setting **composition** with oxidizing component containing)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, acetate esters; hair wave-setting **composition** with oxidizing component containing)
- IT Siloxanes and Silicones, biological studies  
RL: BIOL (Biological study)  
(di-Me, Me hydrogen, polyoxyalkylene-, hair wave-setting **compn** with oxidizing component containing)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, Bu ethers, hair wave-setting **composition** with oxidizing component containing)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, Me ethers, hair wave-setting **composition** with oxidizing component containing)
- IT Lanolin  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(ethoxylated, hair wave-setting **composition** with reducing component containing)
- IT **Alcohols**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(fatty, ethoxylated, hair wave-setting **composition** with reducing component containing)
- IT Castor oil  
Lanolin

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hydrogenated, ethoxylated, hair wave-setting **composition** with reducing component containing)

IT Surfactants

(nonionic, hair wave-setting **composition** with reducing component containing)

IT Hair preparations

(wave-setting, oxidizing **composition** containing cationic polymer and cationic surfactant for)

IT 104-74-5, Laurylpyridinium chloride 112-00-5, Lauryltrimethylammonium chloride 112-02-7, Cetyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 122-18-9, Cetyldimethylbenzylammonium chloride 123-03-5, Cetylpyridinium chloride 4574-04-3, Tetradecyltrimethylammonium chloride 9012-76-4D, Chitosan, cationic derivs. 25154-86-3D, Poly(dimethylaminoethyl methacrylate), methyl-quaternized 25234-60-0, Choline laurate chloride 26006-22-4, Polyquaternium 5 26062-79-3, Polyquaternium 6 26590-05-6, Polyquaternium 7 27103-90-8, Polyquaternium 14 32426-11-2, Decyldimethyloctylammonium chloride 52132-48-6 **53633-54-8**, Polyquaternium 11 53694-17-0, Polyquaternium 22 **55008-57-6**, Gafquat 755N 81859-24-7, Polyquaternium 10 85563-48-0 92183-41-0, Polyquaternium 4 95144-24-4, Polyquaternium 16 130291-58-6, Polyquaternium 9

RL: BIOL (Biological study)

(**hair** wave-setting **composition** with oxidizing component containing)

IT 26027-38-3, Nonoxynol

RL: BIOL (Biological study)

(hair wave-setting **composition** with reducing component containing)

IT **53633-54-8**, Polyquaternium 11 **55008-57-6**, Gafquat 755N

RL: BIOL (Biological study)

(**hair** wave-setting **composition** with oxidizing component containing)

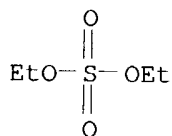
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

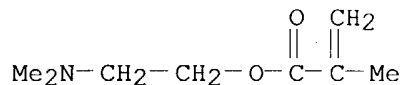
CRN 30581-59-0

CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

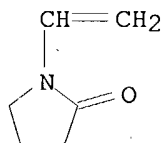
CM 3

CRN 2867-47-2  
CMF C8 H15 N O2



CM 4

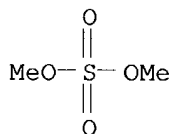
CRN 88-12-0  
CMF C6 H9 N O



RN 55008-57-6 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1  
CMF C2 H6 O4 S

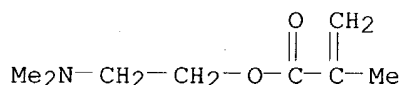


CM 2

CRN 30581-59-0  
CMF (C8 H15 N O2 . C6 H9 N O)x  
CCI PMS

CM 3

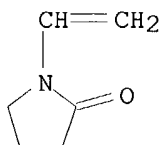
CRN 2867-47-2  
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L11 ANSWER 23 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1994:37791 HCAPLUS

DN 120:37791

TI Oxidative permanent waving **composition** for hair

IN Kahre, Joerg; Mueller, Reinhard; Oberkobusch, Doris

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4213520	A1	19931028	DE 1992-4213520	19920424
	WO 9321896	A1	19931111	WO 1993-EP928	19930416
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	WO 9321897	A1	19931111	WO 1993-EP931	19930416
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	DE 1992-4213520		19920424		

AB Mech. waved hair is treated with a keratin-reducing agent, rinsed, set with an oxidizing agent, and rinsed, where  $\geq 1$  of the treating solns. contains an alkyl glycoside ROZx [R = C6-22 alkyl; Z = mono- or oligosaccharide; x (d.p.) = 1.1-5] or an ethoxylated or propoxylated derivative thereof in combination with an anionic, zwitterionic, or amphoteric surfactant and/or a cationic or amphoteric polymer. Thus, a waving gel containing alkyl glucoside ROZx (R = C12/14 alkyl, Z = glucose, x = 1.4) 2.0, thioglycolic acid 8.0, thiolactic acid 3.0, hydroxyethylcellulose 0.7, Et hydroxyethanediphosphonate 0.3, 25% NH<sub>3</sub> 9.3, (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub> 3.0, protein hydrolyzate 0.5, quaternized protein hydrolyzate 1.0, perfume oil, and water to 100.0% was used in combination with a fixing solution containing alkyl glucoside 3.0, 50% H<sub>2</sub>O<sub>2</sub> 6.0, Na lauryl ether sulfate 1.0, hydroxyethanediphosphonic acid 0.4, panthenol 1.0, 2-pyrrolidone-5-carboxylic acid 2.0, xanthan gum 0.1, 45% NaOH 0.8, perfume oil, and water to 100.0%.

IC ICM A61K007-09

CC 62-3 (Essential Oils and Cosmetics)

ST hair waving **compn** alkyl glucoside; glycoside alkyl hair waving **compn**



IT Polymers, biological studies  
Protein hydrolyzates  
RL: BIOL (Biological study)  
(hair wave-setting compns. containing)

IT Alcohols, biological studies  
RL: BIOL (Biological study)  
(C16-18, hair wave-setting compns. containing)

IT Glycosides  
RL: BIOL (Biological study)  
(alkyl, hair wave-setting compns. containing)

IT Polyelectrolytes  
Surfactants  
(amphoteric, hair wave-setting compns. containing)

IT Surfactants  
(anionic, hair wave-setting compns. containing)

IT Polyelectrolytes  
(cationic, hair wave-setting compns. containing)

IT Fatty acids, compounds  
RL: BIOL (Biological study)  
(condensation products, with proteins, hair wave-setting compns. containing)

IT **Alcohols**, compounds  
RL: BIOL (Biological study)  
(**fatty**, ethoxylated, hair wave-setting compns. containing)

IT **Alcohols**, compounds  
RL: BIOL (Biological study)  
(**fatty**, ethoxylated, sulfates, hair wave-setting compns. containing)

IT Protein hydrolyzates  
RL: BIOL (Biological study)  
(quaternized, hair wave-setting compns. containing)

IT Proteins, specific or class  
RL: BIOL (Biological study)  
(reaction products, with fatty acids, hair wave-setting compns. containing)

IT Hair preparations  
(wave-setting, alkyl glycosides and polymers and surfactants in)

IT Surfactants  
(zwitterionic, hair wave-setting compns. containing)

IT 50-99-7D, Glucose, alkyl acetals 57-48-7D, Fructose, alkyl acetals  
57-50-1D, Sucrose, alkyl acetals 59-23-4D, Galactose, alkyl acetals  
107-97-1D, Sarcosine, C12-18-acylated 147-81-9D, Arabinose, alkyl  
acetals 7664-93-9D, Sulfuric acid, esters with **fatty**  
**alc.** ethers 9004-62-0D, Hydroxyethylcellulose, quaternary  
ammonium group-containing 9004-82-4, Sodium lauryl ether sulfate  
9005-64-5, Polyoxyethylenesorbitan monolaurate 11138-66-2, Xanthan gum  
26062-79-3, Merquat 100 26590-05-6, Merquat 550 28854-76-4D,  
Aminopropionic acid, N-coco alkyl **53633-54-8**, Gafquat 755  
63451-27-4, Mirapol A-15 84643-53-8 95144-24-4, Luviquat FC-550  
102523-96-6, Abil B9950 131479-66-8 151900-71-9D, coco acylated  
RL: BIOL (Biological study)  
(**hair** wave-setting compns. containing)

IT **53633-54-8**, Gafquat 755  
RL: BIOL (Biological study)  
(**hair** wave-setting compns. containing)

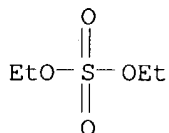
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX  
NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

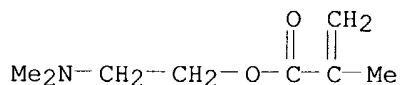
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

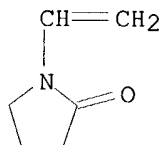
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L11 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1993:633690 HCAPLUS

DN 119:233690

TI Hair dyeing or bleaching **compositions** containing nonionic surfactants and cationic or amphoteric polymers

IN Millequant, Jean-marie; Boudy, Francois

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

PI	EP 557203	A1	19930825	EP 1993-400433	19930219
	EP 557203	B1	19960710		
	EP 557203	B2	19981202		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
	FR 2687570	A1	19930827	FR 1992-2051	19920221
	FR 2687570	B1	19950602		
	ZA 9301142	A	19940818	ZA 1993-1142	19930218
	CA 2089988	AA	19930822	CA 1993-2089988	19930219
	CA 2089988	C	20000215		
	AT 140151	E	19960715	AT 1993-400433	19930219
	ES 2089741	T3	19961001	ES 1993-400433	19930219
	AU 9333720	A1	19930826	AU 1993-33720	19930222
	AU 666703	B2	19960222		
	JP 07267836	A2	19951017	JP 1993-72751	19930222
	US 6312677	B1	20011106	US 1995-424600	19950417
PRAI	FR 1992-2051	A	19920221		
	US 1993-20972	B1	19930222		

AB A cosmetic **composition** contains a nonionic surfactant such as (ethoxylated) **fatty alcs.** 14-50, and a cationic or amphoteric polymer 0.05-10%; the **composition** is stable at room temperature and pH of >5.5. A hair bleach contained ethoxylated oleocetyl alc. 4.2, ethoxylated lauryl alc. 4.8, cetylstearyl alc. 3, ethoxylated decyl alc. 13.2, Merquat-100 3, 20% solution of ammonia 12, paraphenylenediamine 0.45, m-dihydroxybenzene 0.35, 35% solution of Na bisulfite 1.8, fragrance q.s., and water q.s. to 100g; pH=10.9.

IC ICM A61K007-08  
ICS A61K007-13; A61K007-135; A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

ST hair dye bleach surfactant polymer; **fatty alc** polymer  
hair **compn**; Merquat lauryl alc bleach hair

IT Ionene polymers  
Polyamines  
RL: BIOL (Biological study)  
(hair dyes and hair bleaches containing nonionic surfactants and)

IT Alcohols, biological studies  
RL: BIOL (Biological study)  
(C16-18, hair dyes and hair bleaches containing cationic or amphoteric polymers and)

IT Polyamides, biological studies  
RL: BIOL (Biological study)  
(amino-containing, hair dyes and hair bleaches containing nonionic surfactants and)

IT Hair preparations  
(bleaches, nonionic surfactants and cationic polymers in)

IT Siloxanes and Silicones, biological studies  
RL: BIOL (Biological study)  
(cationic, hair dyes and hair bleaches containing nonionic surfactants and)

IT Hair preparations  
(dyes, nonionic surfactants and cationic polymers in)

IT **Alcohols**, biological studies  
RL: BIOL (Biological study)  
(**fatty**, hair dyes and hair bleaches containing cationic or amphoteric polymers and)

IT **Alcohols**, compounds  
RL: BIOL (Biological study)  
(**fatty**, ethoxylated, hair dyes and hair bleaches containing cationic or amphoteric polymers and)

IT **Alcohols**, compounds  
 RL: BIOL (Biological study)  
 (**fatty**, propoxylated, hair dyes and hair bleaches containing cationic or amphoteric polymers and)

IT Surfactants  
 (nonionic, hair dyes and hair bleaches containing cationic or amphoteric polymers and)

IT Polysaccharides, biological studies  
 Proteins, specific or class  
 RL: BIOL (Biological study)  
 (quaternary ammonium group-containing, hair dyes and hair bleaches containing nonionic surfactants and)

IT 143-28-2, Oleyl alcohol 9002-92-0, Ethoxylated lauryl alcohol 9004-98-2 9005-00-9, Ethoxylated stearyl alcohol 9016-45-9, Ethoxylated nonyl phenol 9036-19-5, Ethoxylated octyl phenol 9064-14-6 25322-68-3D, oleocetyl and cetylstearyl ethers 25618-55-7, Polyglycerol 26183-52-8 26636-40-8 52292-17-8, Ethoxylated isostearyl alcohol 122729-62-8  
 RL: BIOL (Biological study)  
 (hair dyes and hair bleaches containing cationic or amphoteric polymers and)

IT 1398-61-4D, Chitin, derivs. 9007-16-3, Carbopol 934 26062-79-3, Merquat 100 53694-17-0, Merquat 280 81859-24-7 **131954-48-8**, Gafquat HS 100  
 RL: BIOL (Biological study)  
 (**hair** dyes and **hair** bleaches containing nonionic surfactants and)

IT **131954-48-8**, Gafquat HS 100  
 RL: BIOL (Biological study)  
 (**hair** dyes and **hair** bleaches containing nonionic surfactants and)

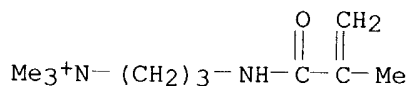
RN 131954-48-8 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 51410-72-1

CMF C10 H21 N2 O . Cl

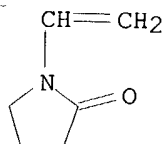


● Cl<sup>-</sup>

CM 2

CRN 88-12-0

CMF C6 H9 N O



L11 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1993:455705 HCAPLUS  
 DN 119:55705  
 TI Hair conditioning shampoo **compositions** with silicone, cationic  
 polymer, and oily liquid conditioning agents  
 IN Wells, Robert Lee; Schmidt, Robert Raymond; King, Bonnie Theresa  
 PA Procter and Gamble Co., USA  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9308787	A2	19930513	WO 1992-US9237	19921027
	WO 9308787	A3	19930805		
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
	AU 9229272	A1	19930607	AU 1992-29272	19921027
	AU 674834	B2	19970116		
	EP 610407	A1	19940817	EP 1992-923542	19921027
	EP 610407	B1	19960828		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE				
	JP 07500609	T2	19950119	JP 1992-508561	19921027
	JP 2911601	B2	19990623		
	HU 67994	A2	19950314	HU 1994-1229	19921027
	HU 215636	B	19990128		
	BR 9206689	A	19950502	BR 1992-6689	19921027
	AT 141784	E	19960915	AT 1992-923542	19921027
	ES 2090702	T3	19961016	ES 1992-923542	19921027
	CZ 282888	B6	19971112	CZ 1994-1025	19921027
	CA 2120492	C	19991228	CA 1992-2120492	19921027
	CN 1072589	A	19930602	CN 1992-113769	19921029
	CN 1044087	B	19990714		
	IN 185998	A	20010602	IN 1992-DE1023	19921106
	NO 9401535	A	19940628	NO 1994-1535	19940427
	FI 9401969	A	19940428	FI 1994-1969	19940428
PRAI	US 1991-784278	A	19911029		
	US 1992-960473	A	19921022		
	WO 1992-US9237	A	19921027		
AB	A shampoo comprises (1) an anionic surfactant 5-50; (2) a dispersed, nonvolatile, nonionic silicone conditioning agent 0.05-10; (3), a water soluble cationic organic conditioning polymer having a charge d. of 0.9-4 m equiv/g 0.05-10; (4) an organic nonvolatile water insol. liquid 0.05-5%; and (5)a carrier.				
IC	ICM A61K007-06				
CC	62-3 (Essential Oils and Cosmetics)				
ST	shampoo silicone cationic polymer surfactant				
IT	Glycerides, biological studies				

Hydrocarbon oils  
 Paraffin oils  
 Siloxanes and Silicones, biological studies  
 RL: BIOL (Biological study)  
 (hair conditioning shampoos containing)

IT Shampoos  
 (silicones and cationic polymers and oily liquid conditioning agents in)

IT Fatty acids, esters  
 RL: BIOL (Biological study)  
 (C10, esters, hair conditioning shampoos containing)

IT Polysaccharides, biological studies  
 RL: BIOL (Biological study)  
 (cationic, hair conditioning shampoos containing)

IT Glycerides, biological studies  
 RL: BIOL (Biological study)  
 (di-, hair conditioning shampoos containing)

IT Carboxylic acids, esters  
 RL: BIOL (Biological study)  
 (di-, esters, hair conditioning shampoos containing)

IT Siloxanes and Silicones, biological studies  
 RL: BIOL (Biological study)  
 (di-Me, hair conditioning shampoos containing)

IT **Alcohols**, biological studies  
 RL: BIOL (Biological study)  
 (**fatty**, hair conditioning shampoos containing)

IT Glycerides, biological studies  
 RL: BIOL (Biological study)  
 (mono-, hair conditioning shampoos containing)

IT Alcohols, biological studies  
 RL: BIOL (Biological study)  
 (polyhydric, hair conditioning shampoos containing)

IT Carboxylic acids, esters  
 RL: BIOL (Biological study)  
 (tri-, esters, hair conditioning shampoos containing)

IT 112-92-5, Stearyl alcohol 627-83-8, Ethylene glycol distearate  
 2235-54-3, Ammonium lauryl sulfate 9000-30-0D, Guar, cationic derivs.  
 9004-34-6D, Cellulose, cationic derivs. 9005-25-8D, Starch, cationic  
 derivs. 26590-05-6, Polyquaternium 7 32612-48-9, Ammonium laureth(3)  
 sulfate 36653-82-4, Cetyl alcohol **55008-57-6** 65497-29-2  
 68171-33-5, Isopropyl isostearate 81859-24-7 95144-24-4 98616-25-2,  
 Polyquaternium 24  
 RL: BIOL (Biological study)  
 (**hair** conditioning shampoos containing)

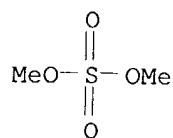
IT **55008-57-6**  
 RL: BIOL (Biological study)  
 (**hair** conditioning shampoos containing)

RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX  
 NAME)

CM 1

CRN 77-78-1  
 CMF C2 H6 O4 S

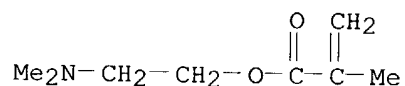


CM 2

CRN 30581-59-0  
CMF (C8 H15 N O2 . C6 H9 N O)x  
CCI PMS

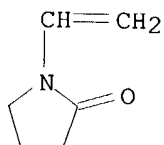
CM 3

CRN 2867-47-2  
CMF C8 H15 N O2



CM 4

CRN 88-12-0  
CMF C6 H9 N O



L11 ANSWER 26 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1990:597651 HCAPLUS  
DN 113:197651  
TI Foaming aerosols for hair wave-setting, free of halohydrocarbons  
IN Goetz, Harry; Hartmann, Peter; Koehler, Joachim  
PA Wella A.-G., Fed. Rep. Ger.  
SO Ger. Offen., 9 pp.  
CODEN: GWXXBX

DT Patent  
LA German

FAN.CNT 1

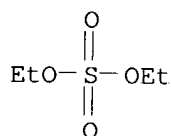
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3819620	A1	19891214	DE 1988-3819620	19880609
	DE 3819620	C2	19920123		
PRAI	DE 1988-3819620		19880609		
AB	The title aerosols comprise the usual keratin-reducing or -oxidizing agents, 2-10% butane, isobutane and/or propane, 0.1-5% anionic				

surfactant(s), 0.1-10% nonionic surfactant(s), and 0.1-5% cationic polymer(s). A **composition** comprised ammonium thioglycolate 12.6, (NH<sub>4</sub>)HCO<sub>3</sub> 5.0, Polysorbate-80 3.0, dipropylene glycol mono-Me ether 2.5, ethoxylated isooctylphenol 2.0, polyoxyethylene-polyoxypropylene block copolymer 2.0, Lamepon-type anionic protein-fatty acid condensation product 1.0, (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub> 0.5, polyquaternium-10 0.5, polyquaternium-140.1, perfume 0.4, and water 70.4 g.

- IC ICM A61K007-09
- ICS C09K003-30
- ICA B01F017-02; B01F017-30; B01F017-42
- CC 62-3 (Essential Oils and Cosmetics)
- ST aerosol spray foaming wavesetting **compn**
- IT Betaines
  - RL: BIOL (Biological study)
  - ((coco amidopropyl)dimethyl, hair wave-setting foams containing)
- IT Sulfonic acids, compounds
  - RL: BIOL (Biological study)
  - (alkane, alkaline earth salts, hair wave-setting foams containing)
- IT Sulfonic acids, compounds
  - RL: BIOL (Biological study)
  - (alkane, alkali metal salts, hair wave-setting foams containing)
- IT Sulfonic acids, compounds
  - RL: BIOL (Biological study)
  - (alkane, ammonium salts, hair wave-setting foams containing)
- IT Phenols, biological studies
  - RL: BIOL (Biological study)
  - (ethoxy, hair wave-setting foams containing)
- IT Castor oil
  - Lanolin
  - RL: BIOL (Biological study)
  - (ethoxylated, hair wave-setting foams containing)
- IT **Alcohols**, compounds
  - RL: BIOL (Biological study)
  - (**fatty**, ethoxylated, hair wave-setting foams containing)
- IT Alcohols, compounds
  - RL: BIOL (Biological study)
  - (lanolin, ethoxylated, hair wave-setting foams containing)
- IT Proteins, specific or class
  - RL: BIOL (Biological study)
  - (reaction products, with fatty acids, anionic, hair wave-setting foams containing)
- IT Fatty acids, compounds
  - RL: BIOL (Biological study)
  - (reaction products, with proteins, anionic, hair wave-setting foams containing)
- IT Hair preparations
  - (wave-setting, foaming aerosol sprays)
- IT 57-13-6, Urea, biological studies 5421-46-5, Ammonium thioglycolate 7664-93-9D, Sulfuric acid, alkyl esters, salts 7664-93-9D, Sulfuric acid, monoalkyl esters, metal salts 7722-84-1, Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>), biological studies 7789-38-0, Sodium bromate 9004-82-4, Sodium lauryl ether sulfate 9004-87-9, Ethoxylated isooctylphenol 9005-64-5, Polysorbate-20 9005-65-6, Polysorbate-80 9005-66-7, Polysorbate-40 9012-76-4D, Chitosan, cationic derivs. 9036-19-5, Ethoxylated octylphenol 25154-86-3, Polydimethylaminoethyl methacrylate 26006-22-4, Polyquaternium 5 26027-38-3 26062-79-3, Polyquaternium-6 26590-05-6, Polyquaternium-7 27103-90-8, Polyquaternium 14 53633-54-8, Polyquaternium-11 81859-24-7, Polyquaternium-10 92183-41-0, Polyquaternium-4 106392-12-5 130291-58-6, Polyquaternium 9

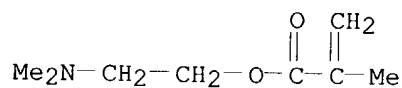


RL: BIOL (Biological study)  
 (hair wave-setting foams containing)  
 IT 53633-54-8, Polyquaternium-11  
 RL: BIOL (Biological study)  
 (hair wave-setting foams containing)  
 RN 53633-54-8 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX  
 NAME)  
 CM 1  
 CRN 64-67-5  
 CMF C4 H10 O4 S

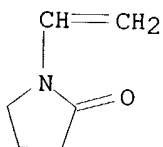


CM 2  
 CRN 30581-59-0  
 CMF (C8 H15 N O2 . C6 H9 N O)x  
 CCI PMS

CM 3  
 CRN 2867-47-2  
 CMF C8 H15 N O2



CM 4  
 CRN 88-12-0  
 CMF C6 H9 N O



L11 ANSWER 27 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1983:427817 HCAPLUS  
 DN 99:27817

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

TI Hair dyeing process  
 IN Grollier, Jean F.; Monnais, Christian; Peritz, Lyonel  
 PA Oreal S. A. , Fr.  
 SO U.S., 30 pp. Cont.-in-part of U.S. 4,314,807.  
 CODEN: USXXAM

DT Patent  
 LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4362528	A	19821207	US 1980-159248	19800613
	US 4314807	A	19820209	US 1976-742117	19761115
	BE 848340	A1	19770516	BE 1976-172354	19761116
PRAI	LU 1975-73793		19751113		
	LU 1975-73794		19751113		
	LU 1975-73795		19751113		
	US 1976-742117		19761115		

AB **Hair** is dyed by application of an **oxidative hair dye** mixture containing **dye**, cationic polymer, and **oxidizing** agent, rinsing, shampooing with an anionic surfactant **composition**, rinsing, and drying. Thus, a cream **hair dye** formulation was prepared from 20 g cetylstearyl alc., 6 g oleic diethanolamide, 3 g Na cetylstearyl sulfate, 1.5 g JR 125 [55353-19-0], 0.048 g 4-methoxy-m-phenylenediamine sulfate, 0.420 g resorcinol, 0.150 g m-aminophenol, 0.085 g nitro-p-phenylenediamine, 0.04 g p-toluenediamine, 1.0 g EDTA, 1.2 g NaHSO<sub>3</sub>, 12 mL NH<sub>4</sub>OH (22° Be), and water to 100 g; 30 g of this cream was mixed with 45 g H<sub>2</sub>O<sub>2</sub> (20 volume), applied to the **hair** for 30 min, rinsed with water, and to the rinsed **hair** was applied 20 g of a pH 7.7 shampoo containing RCH(OH)CH<sub>2</sub>[OCH<sub>2</sub>CH(OH)CH<sub>2</sub>]3.5OH (R = C<sub>9</sub>-12 alkyl) 2, ammonium lauryl sulfate [2235-54-3] 12, Gafquat 734 [30581-59-0] 1.5, and water to 100 g, which is massaged into the **hair** followed by rinsing with water. On 100% white **hair** a blonde color was obtained.

NCL 008406000

CC 62-3 (Essential Oils and Cosmetics)

ST **oxidn hair dye** cationic polymer; anionic polymer  
 shampoo dye

IT Shampoos  
 (anionic polymers of, for hair **oxidative dyeing** and bleaching)

IT Ionomers  
 RL: BIOL (Biological study)  
 (hair **oxidative dye** formulations and shampoos containing)

IT Hair preparations  
 (bleaches, cationic polymers of)

IT Hair preparations  
 (dyes, **oxidative**, cationic polymers of)

IT 29298-09-7D, compound with di-Me sulfate 62478-74-4 63562-44-7D, compound  
 with di-Me sulfate

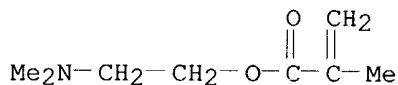
RL: BIOL (Biological study)  
 (hair lightener gel containing)

IT 28728-55-4 28728-57-6 30581-59-0 30870-73-6 63566-47-2  
 81859-24-7 81859-24-7 81859-24-7

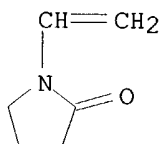
RL: BIOL (Biological study)  
 (hair **oxidative dye** cream containing)

IT 62455-12-3 63127-45-7  
 RL: BIOL (Biological study)

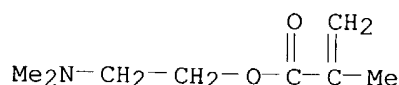
(hair **oxidative dye** gel containing)  
 IT 63601-33-2  
 RL: BIOL (Biological study)  
 (shampoo containing, in **oxidative dyeing** and bleaching  
 of hair)  
 IT 139-96-8 2235-54-3 **30581-59-0 30581-59-0D**, compound  
 with di-Me sulfate 31622-88-5 59326-29-3 59407-89-5 59407-93-1  
 63410-54-8  
 RL: BIOL (Biological study)  
 (shampoo containing, in **oxidative dyeing** of  
 hair)  
 IT **30581-59-0**  
 RL: BIOL (Biological study)  
 (hair **oxidative dye** cream containing)  
 RN 30581-59-0 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 2867-47-2  
 CMF C8 H15 N O2



CM 2  
 CRN 88-12-0  
 CMF C6 H9 N O



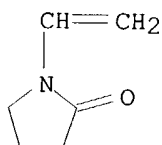
IT **30581-59-0D**, compound with di-Me sulfate  
 RL: BIOL (Biological study)  
 (shampoo containing, in **oxidative dyeing** of  
 hair)  
 RN 30581-59-0 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 2867-47-2  
 CMF C8 H15 N O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



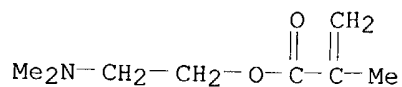
L11 ANSWER 28 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1977:458413 HCAPLUS  
 DN 87:58413  
 TI Hair coloring **composition** and method  
 IN Grollier, Jean Francois; Monnaix, Christian; Peritz, Lyonel  
 PA Oreal S. A., Fr.  
 SO Ger. Offen., 91 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2651749	A1	19770526	DE 1976-2651749	19761112
	DE 2651749	B2	19810402		
	NL 7612554	A	19770517	NL 1976-12554	19761111
	AU 7619540	A1	19780518	AU 1976-19540	19761111
	AU 512531	B2	19801016		
	FR 2331325	A1	19770610	FR 1976-34075	19761112
	FR 2331325	B1	19810529		
	CH 617090	A	19800514	CH 1976-14313	19761112
	AT 7608422	A	19800515	AT 1976-8422	19761112
	AT 360165	B	19801229		
	GB 1569980	A	19800625	GB 1976-47293	19761112
	CA 1091158	A1	19801209	CA 1976-265657	19761115
	BE 848340	A1	19770516	BE 1976-172354	19761116
PRAI	LU 1975-73793		19751113		
	LU 1975-73794		19751113		
	LU 1975-73795		19751113		

AB A hair coloring **composition** comprising an **oxidizing dye** and a cationic, quaternized polymer is mixed with a customary oxidizing agent, and is applied to the **hair**. After 15-40 min the dye is rinsed out and the **hair** is washed with an anionic detergent-containing shampoo which may also contain a cationic polymer. For example, a hair dyeing cream was prepared containing cetylstearyl alc. 20, oleic acid diethanolamide 6, Na cetylstearyl sulfate 3, JR125 (cationic polymer) [55353-19-0] 1.5, NH<sub>4</sub>OH 22° Be 12 mL, m-diaminoanisole sulfate 0.048, resorcinol 0.420, m-aminophenol 0.150,

nitro-p-phenylenediamine 0.085, p-toluylenediamine 0.004, EDTA 1.000, NaHSO3 (d = 1.32) 1.200, and H2O up to 100 g. To this formulation 45 g 6% H2O2 solution was added, and the resulting smooth, heavy cream was applied to **hair**. After 30 min the **hair** was rinsed and was shampooed with a **composition** containing RCH(OH)CH2[OCH2CH(OH)CH2]3.5OH (R = mixture of C9-12 alkyl) 2, ammonium lauryl sulfate [2235-54-3] 12, Gafquat 734 (cationic polymer) [37348-62-2] 1.5, and H2O up to 100 g. The resulting color was blond, and the **hair** was lustrous and manageable.

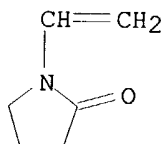
- IC A61K007-13
- CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 37
- ST polymer cationic hair color oxidative; shampoo hair anionic detergent
- IT Shampoos  
(anionic detergents and cationic polymers in, for hair conditioning after dyeing)
- IT Ionene polymers  
RL: BIOL (Biological study)  
(in hair dyes and shampoos)
- IT Hair preparations  
(**dyes, oxidizing**, cationic polymers in, for hair protection)
- IT **30581-59-0 55008-57-6**  
RL: BIOL (Biological study)  
(graft, in **hair** dye compns.)
- IT 81859-24-7 81859-24-7  
RL: BIOL (Biological study)  
(in hair dye **composition**)
- IT 75-21-8D, reaction products with sodium lauryl ether sulfate 151-21-3D,  
reaction products with ethylene **oxide** 28728-55-4 29298-09-7  
30870-73-6 63127-45-7 63562-45-8 63727-23-1 63727-24-2  
RL: BIOL (Biological study)  
(in hair **dye** compns.)
- IT 81859-24-7  
RL: BIOL (Biological study)  
(in hair dyes)
- IT 139-96-8 2235-54-3 26403-55-4D, alkyl derivs. **53633-54-8**  
59407-89-5 59407-93-1 63601-33-2  
RL: BIOL (Biological study)  
(in shampoo for use after **hair** dyeing)
- IT 59326-30-6  
RL: BIOL (Biological study)  
(in shampoos for use after hair dyeing)
- IT 63410-54-8P  
RL: PREP (Preparation)  
(preparation and use in shampoos)
- IT **30581-59-0 55008-57-6**  
RL: BIOL (Biological study)  
(graft, in **hair** dye compns.)
- RN 30581-59-0 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)
- CM 1
- CRN 2867-47-2
- CMF C8 H15 N O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



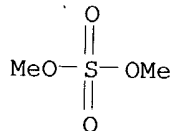
RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1

CMF C2 H6 O4 S



CM 2

CRN 30581-59-0

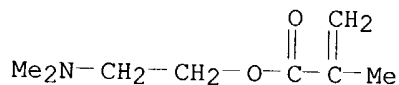
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

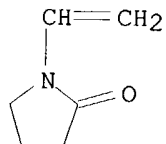
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



IT 53633-54-8

RL: BIOL (Biological study)  
(in shampoo for use after **hair** dyeing)

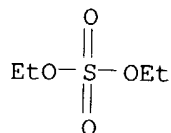
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

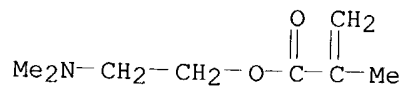
CMF (C8 H15 N O2 . C6 H9 N O) x

CCI PMS

CM 3

CRN 2867-47-2

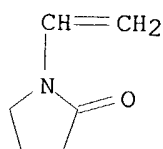
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L11 ANSWER 29 OF 29 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1977:428855 HCAPLUS  
 DN 87:28855  
 TI Hair dye **composition**  
 IN Papantoniou, Christos  
 PA Oreal S. A., Fr.  
 SO Ger. Offen., 23 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2623692	A1	19761209	DE 1976-2623692	19760526
	NL 7605561	A	19761130	NL 1976-5561	19760524
	CA 1083045	A1	19800805	CA 1976-253202	19760525
	BE 842259	A1	19761126	BE 1976-167364	19760526
	JP 51144742	A2	19761213	JP 1976-60204	19760526
	JP 61045605	B4	19861008		
	FR 2312233	A1	19761224	FR 1976-15948	19760526
	FR 2312233	B1	19790511		
	AU 501671	B2	19790628	AU 1976-14304	19760526
	CH 614121	A	19791115	CH 1976-6674	19760526
	AT 7603851	A	19800415	AT 1976-3851	19760526
	AT 359649	B	19801125		
	US 4047888	A	19770913	US 1976-690783	19760527
PRAI	LU 1975-72592		19750528		

AB Incorporation of a cationic graft copolymer in **oxidative hair dyes** facilitates smoothing of the **hair** and preserves its natural luster. For example, a mixture of N-vinylpyrrolidone 303.6, dimethylaminoethyl methacrylate quaternized with Me2SO4 247.5, and polyethylene glycol (mol. weight 20,000) 48.9 g was polymerized at 90-100° with azobisisobutyronitrile 12 g as catalyst to form a quaternized copolymer [52539-48-7]. A dye cream was prepared containing this copolymer 4.5, cetyl stearyl alc. 22, oleic acid diethanolamide 5, Na cetylstearyl sulfate 4, 2,4-diaminoanisole sulfate 0.048, resorcinol 0.420, m-aminophenol 0.150, nitro-p-phenylenediamine 0.085, p-toluylenediamine 0.004, EDTA 0.2, NaHSO3 1.2g, NH4OH(22° Be) 11mL, and water to 100g. To 30g of this cream was added 45g 20% H2O2.

IC A61K007-13

CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 36

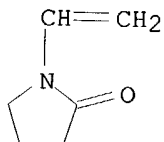
ST hair dye graft copolymer; vinylpyrrolidone methacrylate glycol copolymer

IT Hair  
 (dyes for, methacrylate-polyethylene glycol-vinylpyrrolidone graft copolymers as hair conditioners in)

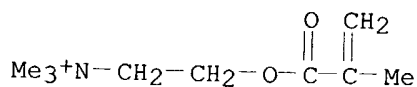
IT Hair preparations  
 (dyes, conditioners for, methacrylate-polyethylene glycol-



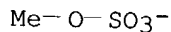
vinylpyrrolidone graft copolymers as)  
 IT 52539-48-7P 61804-44-2P  
 RL: PREP (Preparation)  
 (graft, preparation of, as hair conditioner, in hair dyes)  
 IT 52539-48-7P 61804-44-2P  
 RL: PREP (Preparation)  
 (graft, preparation of, as hair conditioner, in hair dyes)  
 RN 52539-48-7 HCAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 88-12-0  
 CMF C6 H9 N O



CM 2  
 CRN 6891-44-7  
 CMF C9 H18 N O2 . C H3 O4 S  
 CM 3  
 CRN 33611-56-2  
 CMF C9 H18 N O2

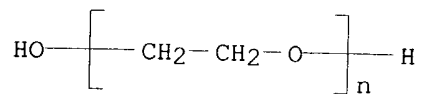


CM 4  
 CRN 21228-90-0  
 CMF C H3 O4 S



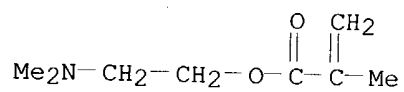
RN 61804-44-2 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone and  $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)  
 CM 1

CRN 25322-68-3  
 CMF (C2 H4 O)<sub>n</sub> H2 O  
 CCI PMS



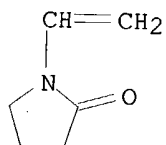
CM 2

CRN 2867-47-2  
 CMF C8 H15 N O2



CM 3

CRN 88-12-0  
 CMF C6 H9 N O



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